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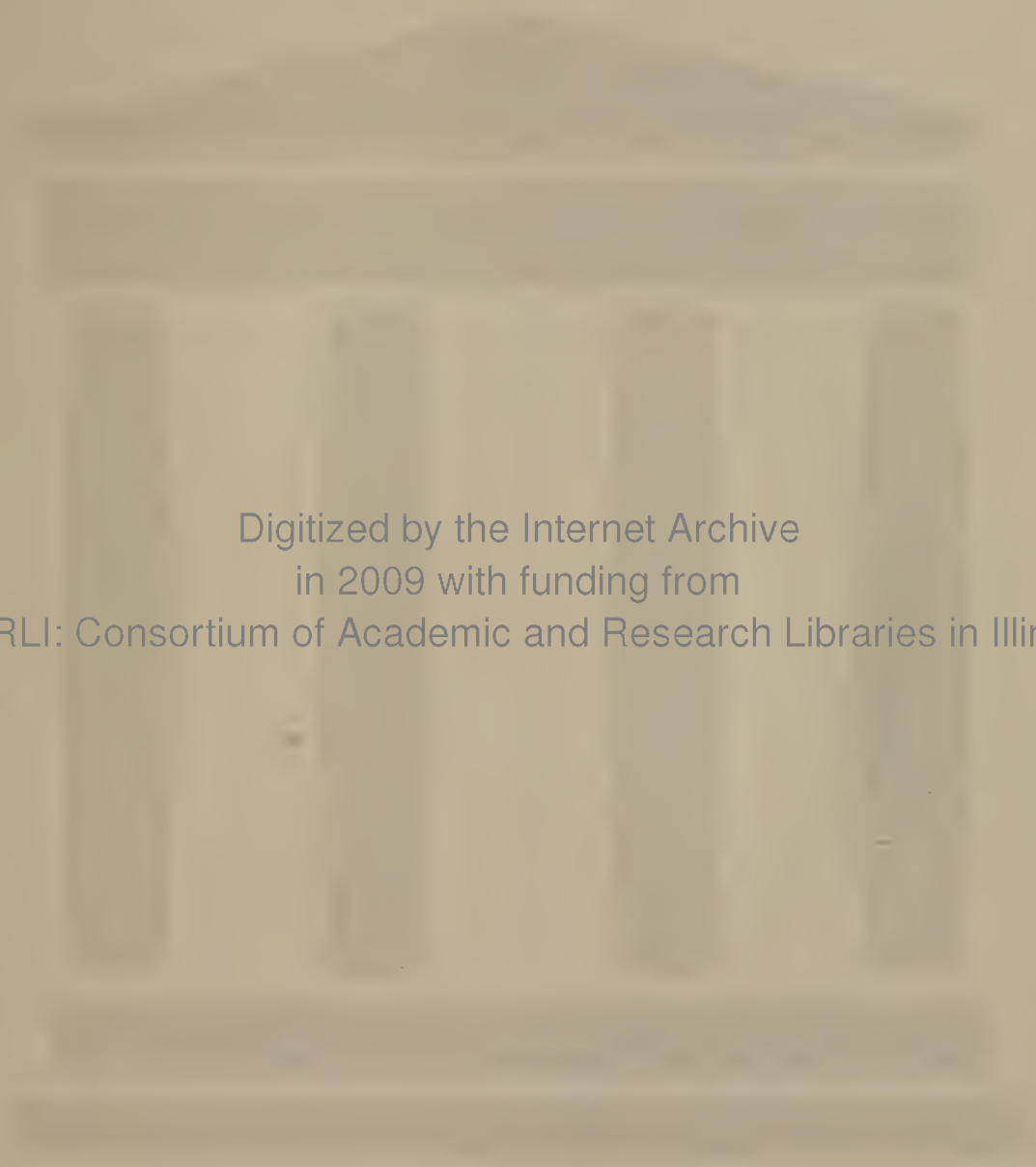
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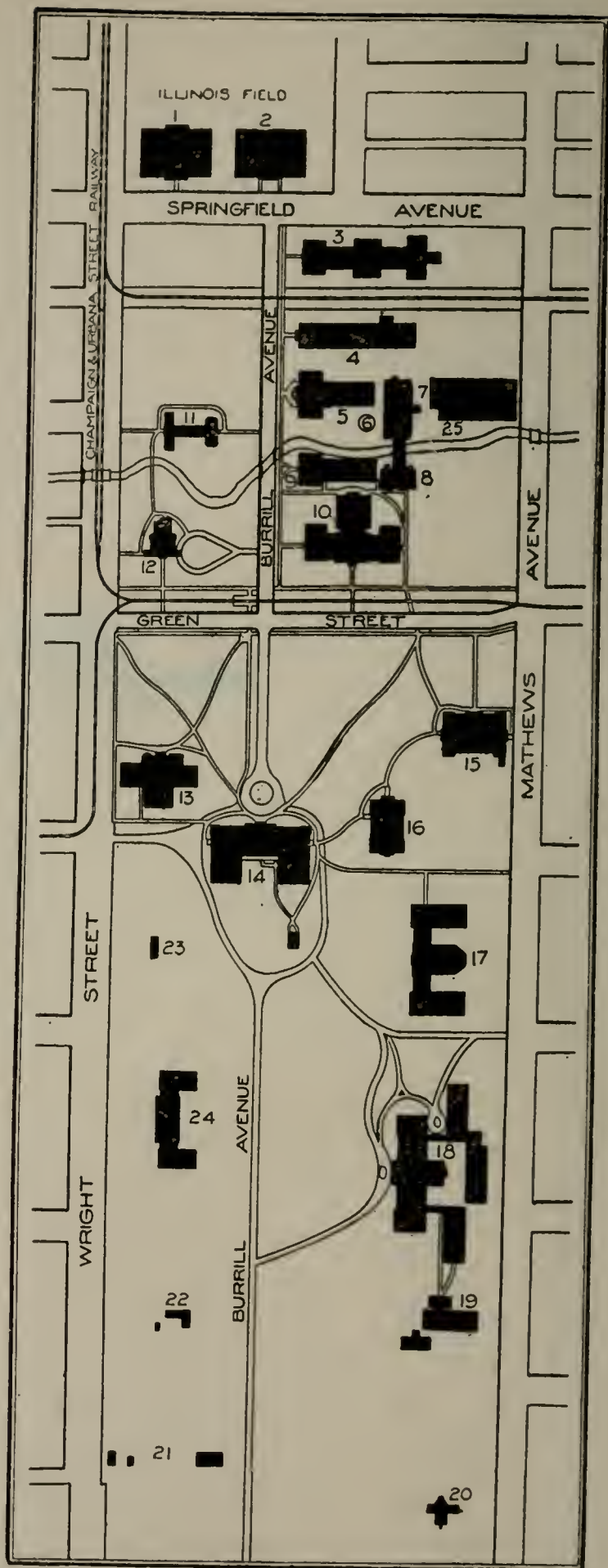
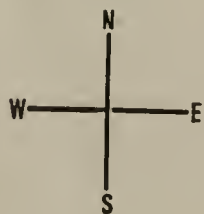


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LIBRARY  
OF THE  
UNIVERSITY OF CALIFORNIA

- 1 Men's Gymnasium
- 2 Armory
- 3 Wood Shop and Foundry
- 4 Metal Shops
- 5 Electrical and Mechanical Laboratory
- 6 Reservoir
- 7 Heating Plant
- 8 Pumping Plant
- 9 Laboratory of Applied Mechanics
- 10 Engineering Hall
- 11 Greenhouse
- 12 President's House
- 13 Library
- 14 University Hall
- 15 Natural History Hall
- 16 College of Law
- 17 Chemical Laboratory
- 18 Agricultural Buildings
- 19 Greenhouse
- 20 Observatory
- 21 Warehouse
- 22 Veterinary Building
- 23 Insectary
- 24 Woman's Building
- 25 Mechanical Engineering Laboratory



UNIVERSITY GROUNDS AND BUILDINGS

Learning and Labor

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University of Illinois

UNIVERSITY OF ILLINOIS  
LIBRARY

# ANNOUNCEMENTS

## 1906-1907

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### Register for 1905-1906

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URBANA, ILLINOIS  
PUBLISHED BY THE UNIVERSITY  
FEBRUARY 15, 1906

THE  
CONFIDENTIALITY  
OF

Pantagraph  
Printing and Stationery Company  
Bloomington, Illinois

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1905/06

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# THE UNIVERSITY CALENDAR

1906-1907

FOR ALL DEPARTMENTS AT URBANA

1906

## FIRST SEMESTER

|                                      |   |
|--------------------------------------|---|
| Sept. 12, Wednesday.                 | Entrance Examinations begin.                    |
| Sept. 17, 18, Monday<br>and Tuesday. | Registration Days.                              |
| Sept. 19, Wednesday.                 | Instruction begins.                             |
| Nov. 5, Monday.                      | Latest day for Announcing Theses Sub-<br>jects. |
| Nov. 29, Thursday.                   | Thanksgiving Day.                               |
| Dec. 22, Saturday.                   | Holiday Recess begins.                          |
| 1907.                                |   |
| Jan. 8, Tuesday.                     | Instruction begins.                             |
| Jan. 25, Friday.                     | First Semester ends.                            |

## SECOND SEMESTER

|  |                                      |
|--|--------------------------------------|
| Jan. 28, Monday.                           | Instruction begins.                  |
| May 17, Friday evening.                    | Interscholastic Oratorical Contest.  |
| May 16, 17, 18, Thurs-<br>day to Saturday. | Public School Art Exhibit.           |
| May 18, Saturday.                          | Interscholastic Athletic Meet.       |
| May 28, Tuesday.                           | { Hazelton Prize Drill.              |
|  | { Annual Inspection.                 |
|  | { Company Competitive Drill.         |
| May 31, Friday.                            | Military Day.                        |
| May 31, Friday.                            | Latest day for Acceptance of Theses. |
| June 9, Sunday.                            | Baccalaureate Address.               |
| June 10, Monday.                           | Class Day.                           |
| June 11, Tuesday.                          | Alumni Day.                          |
| June 12, Wednesday.                        | Thirty-sixth Annual Commencement.    |

1907

FIRST SEMESTER, 1907-1908

|                                      |  |
|--------------------------------------|--|
| Sept. 11, Wednesday.                 | Entrance Examinations begin.               |
| Sept. 16, 17, Monday<br>and Tuesday. | Registration Days.                         |
| Sept. 18, Wednesday.                 | Instruction begins.                        |
| Nov. 4, Monday.                      | Latest day for announcing Theses Subjects. |
| Nov. 28, Thursday.                   | Thanksgiving Day.                          |
| Dec. 21, Saturday.                   | Holiday Recess begins.                     |
| 1908                                 |  |
| Jan. 7, Tuesday.                     | Instruction begins.                        |
| Jan. 24, Friday.                     | First Semester ends.                       |

**SUMMER SESSION**

1906

|                    |                     |
|--------------------|---------------------|
| June 18, Monday.   | Instruction begins. |
| August 17, Friday. | Session ends.       |

1907

|                    |                     |
|--------------------|---------------------|
| June 17, Monday.   | Instruction begins. |
| August 16, Friday. | Session ends.       |

**FOR PROFESSIONAL DEPARTMENTS IN CHICAGO**

1906

|                    |  |
|--------------------|--|
| Sept. 17-23.       | Entrance examinations, College of Medicine.                      |
| Sept. 25, Tuesday. | Winter term opens at College of Medicine and School of Pharmacy. |
| Oct. 4, Thursday.  | Term opens at College of Dentistry.                              |

1907

|                     |                                       |
|---------------------|---------------------------------------|
| April 25, Thursday. | Commencement of School of Pharmacy.   |
| May 4, Saturday.    | Commencement of College of Dentistry. |
| June 4, Tuesday.    | Commencement of College of Medicine.  |

# Calendar, 1906-1907-1908.

1906

1907

1908

## JULY

| S  | M  | T  | W  | T  | F  | S  |
|----|----|----|----|----|----|----|
| 1  | 2  | 3  | 4  | 5  | 6  | 7  |
| 8  | 9  | 10 | 11 | 12 | 13 | 14 |
| 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| 29 | 30 | 31 | .. | .. | .. | .. |

## AUGUST

| S  | M  | T  | W  | T  | F  | S  |
|----|----|----|----|----|----|----|
| .. | .. | .. | 1  | 2  | 3  | 4  |
| 5  | 6  | 7  | 8  | 9  | 10 | 11 |
| 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| 26 | 27 | 28 | 29 | 30 | 31 | .. |

## SEPT.

| S  | M  | T  | W  | T  | F  | S  |
|----|----|----|----|----|----|----|
| .. | .. | .. | .. | .. | .. | 1  |
| 2  | 3  | 4  | 5  | 6  | 7  | 8  |
| 9  | 10 | 11 | 12 | 13 | 14 | 15 |
| 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| 30 | .. | .. | .. | .. | .. | .. |

## OCTOBER

| S  | M  | T  | W  | T  | F  | S  |
|----|----|----|----|----|----|----|
| .. | 1  | 2  | 3  | 4  | 5  | 6  |
| 7  | 8  | 9  | 10 | 11 | 12 | 13 |
| 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 |
| 28 | 29 | 30 | 31 | .. | .. | .. |

## NOVEMBER

| S  | M  | T  | W  | T  | F  | S  |
|----|----|----|----|----|----|----|
| .. | .. | .. | .. | 1  | 2  | 3  |
| 4  | 5  | 6  | 7  | 8  | 9  | 10 |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 25 | 26 | 27 | 28 | 29 | 30 | .. |

## DECEMBER

| S  | M  | T  | W  | T  | F  | S  |
|----|----|----|----|----|----|----|
| .. | .. | .. | .. | .. | .. | 1  |
| 2  | 3  | 4  | 5  | 6  | 7  | 8  |
| 9  | 10 | 11 | 12 | 13 | 14 | 15 |
| 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| 30 | 31 | .. | .. | .. | .. | .. |

## JANUARY

| S  | M  | T  | W  | T  | F  | S  |
|----|----|----|----|----|----|----|
| .. | .. | 1  | 2  | 3  | 4  | 5  |
| 6  | 7  | 8  | 9  | 10 | 11 | 12 |
| 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| 27 | 28 | 29 | 30 | 31 | .. | .. |

## FEBRUARY

| S  | M  | T  | W  | T  | F  | S  |
|----|----|----|----|----|----|----|
| .. | .. | .. | .. | .. | 1  | 2  |
| 3  | 4  | 5  | 6  | 7  | 8  | 9  |
| 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 24 | 25 | 26 | 27 | 28 | .. | .. |

## MARCH

| S  | M  | T  | W  | T  | F  | S  |
|----|----|----|----|----|----|----|
| .. | .. | .. | .. | .. | 1  | 2  |
| 3  | 4  | 5  | 6  | 7  | 8  | 9  |
| 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| 31 | .. | .. | .. | .. | .. | .. |

## APRIL

| S  | M  | T  | W  | T  | F  | S  |
|----|----|----|----|----|----|----|
| .. | 1  | 2  | 3  | 4  | 5  | 6  |
| 7  | 8  | 9  | 10 | 11 | 12 | 13 |
| 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 |
| 28 | 29 | 30 | .. | .. | .. | .. |

## MAY

| S  | M  | T  | W  | T  | F  | S  |
|----|----|----|----|----|----|----|
| .. | .. | .. | 1  | 2  | 3  | 4  |
| 5  | 6  | 7  | 8  | 9  | 10 | 11 |
| 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| 26 | 27 | 28 | 29 | 30 | 31 | .. |

## JUNE

| S  | M  | T  | W  | T  | F  | S  |
|----|----|----|----|----|----|----|
| .. | .. | .. | .. | .. | .. | 1  |
| 2  | 3  | 4  | 5  | 6  | 7  | 8  |
| 9  | 10 | 11 | 12 | 13 | 14 | 15 |
| 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| 30 | .. | .. | .. | .. | .. | .. |

## JULY

| S  | M  | T  | W  | T  | F  | S  |
|----|----|----|----|----|----|----|
| .. | 1  | 2  | 3  | 4  | 5  | 6  |
| 7  | 8  | 9  | 10 | 11 | 12 | 13 |
| 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 |
| 28 | 29 | 30 | 31 | .. | .. | .. |

## AUGUST

| S  | M  | T  | W  | T  | F  | S  |
|----|----|----|----|----|----|----|
| .. | .. | .. | .. | 1  | 2  | 3  |
| 4  | 5  | 6  | 7  | 8  | 9  | 10 |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 25 | 26 | 27 | 28 | 29 | 30 | 31 |

## SEPT.

| S  | M  | T  | W  | T  | F  | S  |
|----|----|----|----|----|----|----|
| 1  | 2  | 3  | 4  | 5  | 6  | 7  |
| 8  | 9  | 10 | 11 | 12 | 13 | 14 |
| 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| 29 | 30 | .. | .. | .. | .. | .. |

## OCTOBER

| S  | M  | T  | W  | T  | F  | S  |
|----|----|----|----|----|----|----|
| .. | .. | 1  | 2  | 3  | 4  | 5  |
| 6  | 7  | 8  | 9  | 10 | 11 | 12 |
| 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| 27 | 28 | 29 | 30 | 31 | .. | .. |

## NOVEMBER

| S  | M  | T  | W  | T  | F  | S  |
|----|----|----|----|----|----|----|
| .. | .. | .. | .. | .. | 1  | 2  |
| 3  | 4  | 5  | 6  | 7  | 8  | 9  |
| 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 24 | 25 | 26 | 27 | 28 | 29 | 30 |

## DECEMBER

| S  | M  | T  | W  | T  | F  | S  |
|----|----|----|----|----|----|----|
| 1  | 2  | 3  | 4  | 5  | 6  | 7  |
| 8  | 9  | 10 | 11 | 12 | 13 | 14 |
| 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| 29 | 30 | 31 | .. | .. | .. | .. |

## JANUARY

| S  | M  | T  | W  | T  | F  | S  |
|----|----|----|----|----|----|----|
| .. | .. | .. | 1  | 2  | 3  | 4  |
| 5  | 6  | 7  | 8  | 9  | 10 | 11 |
| 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| 26 | 27 | 28 | 29 | 30 | 31 | .. |

## FEBRUARY

| S  | M  | T  | W  | T  | F  | S  |
|----|----|----|----|----|----|----|
| .. | .. | .. | .. | .. | .. | 1  |
| 2  | 3  | 4  | 5  | 6  | 7  | 8  |
| 9  | 10 | 11 | 12 | 13 | 14 | 15 |
| 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 23 | 24 | 25 | 26 | 27 | 28 | 29 |

## MARCH

| S  | M  | T  | W  | T  | F  | S  |
|----|----|----|----|----|----|----|
| 1  | 2  | 3  | 4  | 5  | 6  | 7  |
| 8  | 9  | 10 | 11 | 12 | 13 | 14 |
| 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| 29 | 30 | 31 | .. | .. | .. | .. |

## APRIL

| S  | M  | T  | W  | T  | F  | S  |
|----|----|----|----|----|----|----|
| .. | .. | .. | 1  | 2  | 3  | 4  |
| 5  | 6  | 7  | 8  | 9  | 10 | 11 |
| 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| 26 | 27 | 28 | 29 | 30 | .. | .. |

## MAY

| S  | M  | T  | W  | T  | F  | S  |
|----|----|----|----|----|----|----|
| .. | .. | .. | .. | .. | .. | 1  |
| 2  | 3  | 4  | 5  | 6  | 7  | 8  |
| 9  | 10 | 11 | 12 | 13 | 14 | 15 |
| 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| 30 | 31 | .. | .. | .. | .. | .. |

## JUNE

| S  | M  | T  | W  | T  | F  | S  |
|----|----|----|----|----|----|----|
| .. | 1  | 2  | 3  | 4  | 5  | 6  |
| 7  | 8  | 9  | 10 | 11 | 12 | 13 |
| 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 |
| 28 | 29 | 30 | .. | .. | .. | .. |



## DEPARTMENTS OF THE UNIVERSITY

---

The University comprises the following colleges and schools, part of them located at Urbana and part of them in Chicago. Those at Urbana are:

The Graduate School.

The Colleges of Liberal Arts, including the College of Literature and Arts and the College of Science.

The College of Engineering.

The College of Agriculture.

The College of Law.

The School of Library Science.

The School of Music.

In connection with the College of Agriculture the Agricultural Experiment Station for Illinois is maintained at Urbana, partly by State and partly by Federal appropriations.

The Engineering Experiment Station, established by the State Legislature in 1903, is at Urbana, in connection with the College of Engineering.

The offices of the State Laboratory of Natural History, State Entomologist, State Water Survey, and State Geological Survey are located at Urbana.

The departments of the University in Chicago are:

The College of Medicine.

The School of Pharmacy.

The College of Dentistry.

The University Campus is within the corporate limits of Urbana, the west edge of the Campus being the dividing line between Urbana and Champaign. The post office, express, and telegraph, services of both cities are, therefore, equally available for the University. The two cities are connected by an electric street railway, which runs through the University grounds, with ten-minute service. The population of Champaign and Urbana is about 17,000.

## BOARD OF TRUSTEES

---

|  |                   |
|--|-------------------|
| THE GOVERNOR OF ILLINOIS.....                        | <i>Ex Officio</i> |
| CHARLES S. DENEEN .....                              | Springfield.      |
| THE PRESIDENT OF THE STATE BOARD OF AGRICULTURE..... | "                 |
| AUSTIN D. BARBER .....                               | Hamilton.         |
| THE SUPERINTENDENT OF PUBLIC INSTRUCTION.....        | "                 |
| ALFRED BAYLISS .....                                 | Springfield.      |
| ALEXANDER McLEAN .....                               | Macomb.           |
| SAMUEL A. BULLARD .....                              | Springfield.      |
| MRS. CARRIE T. ALEXANDER..                           | Belleville.       |
| LEWIS L. LEHMAN.....                                 | Mattoon.          |
| } Term of Office expires in 1907.                    |                   |
| LEONIDAS H. KERRICK.....                             | Bloomington.      |
| MRS. LAURA B. EVANS.....                             | Taylorville.      |
| } Term of Office expires in 1909.                    |                   |
| WILLIAM L. ABBOTT.....                               |                   |
| 139 Adams Street.....                                | Chicago.          |
| DR. CHARLES DAVISON.....                             |                   |
| 1010, 103 State Street.....                          | Chicago.          |
| MRS. MARY E. BUSEY.....                              | Urbana.           |
| } Term of Office expires in 1911.                    |                   |

### OFFICERS OF THE BOARD

|  |              |
|--|--------------|
| SAMUEL A. BULLARD, Springfield.....                  | President.   |
| WILLIAM L. PILLSBURY, Urbana.....                    | Secretary.   |
| HELGE A. HAUGAN, State Bank of Chicago, Chicago..... | Treasurer.   |
| PROFESSOR S. W. SHATTUCK, Urbana.....                | Comptroller. |

### EXECUTIVE COMMITTEE

Samuel A. Bullard, Chairman; Lewis L. Lehman,  
Mrs. Carrie T. Alexander.

## STANDING COMMITTEES

**AGRICULTURE**

Leonidas H. Kerrick, Chairman; Mrs. Mary E. Busey.  
Mrs. Carrie T. Alexander,

**BUILDINGS AND GROUNDS**

William L. Abbott, Chairman; Samuel A. Bullard, Lewis L. Lehman,  
Alexander McLean, Mrs. Carrie T. Alexander.

**FINANCE**

Alexander McLean, Chairman; Leonidas H. Kerrick,  
Lewis L. Lehman.

**INSTRUCTION**

Mrs. Carrie T. Alexander, Chairman; Mrs. Mary E. Busey,  
Leonidas H. Kerrick.

**PUBLICATION**

Lewis L. Lehman, Chairman; William L. Abbott,  
Mrs. Laura B. Evans.

**LIBRARY**

Alexander McLean, Chairman; Dr. Charles Davison,  
Mrs. Laura B. Evans.

**STUDENTS' WELFARE**

Mrs. Mary E. Busey, Chairman; Mrs. Carrie T. Alexander,  
Mrs. Laura B. Evans.

**SCHOOL OF PHARMACY**

Mrs. Laura B. Evans, Chairman; Dr. Charles Davison,  
Mrs. Mary E. Busey.

**COLLEGE OF MEDICINE**

Dr. Charles Davison, Chairman; Alexander McLean,  
Samuel A. Bullard.

**ENGINEERING**

William L. Abbott, Chairman; Lewis L. Lehman,  
Samuel A. Bullard.

## OFFICERS OF ADMINISTRATION

---

PRESIDENT: EDMUND J. JAMES, PH.D., LL.D. Office, Library Building.

SECRETARY AND REGISTRAR: WILLIAM L. PILLSBURY, A.M. Office, Library Building. Office hours, 2 to 5 p. m.

COMPTROLLER: SAMUEL W. SHATTUCK, C.E. Office, Library Building. Office hours, 3 to 5 p. m.

### COUNCIL OF ADMINISTRATION

EDMUND JAMES JAMES, PH.D., LL.D., President.

*President's House, University Campus, U.\**

THOMAS JONATHAN BURRILL, PH.D., LL.D., VICE-PRESIDENT, and Professor of Botany. *1007 West Green Street, U.*

DAVID KINLEY, PH.D., DEAN OF THE GRADUATE SCHOOL, Director of the Courses in Commerce, and Professor of Economics. *1101 West Oregon Street, U.*

EUGENE DAVENPORT, M.AGR., DEAN OF THE COLLEGE OF AGRICULTURE and Professor of Thremmatology. *805 South Wright Street, C.*

OLIVER ALBERT HARKER, A.M., DEAN OF THE COLLEGE OF LAW and Professor of Law. *807 South Wright Street, C.*

WILLIAM EDWARD QUINE, M.D., DEAN OF THE COLLEGE OF MEDICINE and Professor of the Practice of Medicine and Clinical Medicine. *103 State Street, Chicago.*

THOMAS ARKLE CLARK, B.L., DEAN OF UNDERGRADUATES and Professor of Rhetoric. *928 West Illinois Street, U.*

JAMES McLAREN WHITE, ACTING DEAN OF THE COLLEGE OF ENGINEERING and Professor of Architectural Engineering. *716 West University Avenue, C.*

---

\* U. stands for Urbana. C. for Champaign.

EDGAR JEROME TOWNSEND, PH.D., ACTING DEAN OF THE  
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*510 John Street, C.*

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For that of the **Agricultural Experiment Station**, see page 198.

For that of the **Engineering Experiment Station**, see page 201.

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For that of the **State Entomologist's Office**, see page 205.

For that of the **State Geological Survey**, see page 206.

# UNIVERSITY OF ILLINOIS

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## HISTORY

The University of Illinois is situated in Champaign County, in the eastern central part of the state, between the cities of Urbana and Champaign, and within the corporate limits of the former. It is one hundred and twenty-eight miles south of Chicago, at the junction of the Illinois Central, the Cleveland, Cincinnati, Chicago and St. Louis, and the Wabash, railroads. The country around is a rich and prosperous agricultural region. The cities of Urbana and Champaign have, together, a population of about 17,000.

In 1862 the national government donated to each state in the Union public land scrip in quantity equal to 30,000 acres for each senator and representative in congress, "for the endowment, support, and maintenance of at least one college, whose leading object shall be, without excluding other scientific and classical studies, and including military tactics, to teach such branches of learning as are related to agriculture and the mechanic arts \* \* \* in order to promote the liberal and practical education of the industrial classes in the several pursuits and professions of life."

On account of this grant the state pays the University, semi-annually, interest at the rate of five per cent. on about \$610,000; and deferred payments on land contracts amount, approximately, to \$35,000.

To secure the location of the University several counties entered into competition by proposing to donate to its use specified sums of money, or their equivalent. Cham-

paign County offered a large brick building in the suburbs of Urbana, erected for a seminary and nearly completed, about 1,000 acres of land, and \$100,000 in county bonds. To this the Illinois Central Railroad added \$50,000 in freight.

The state has from time to time appropriated various sums for permanent improvements, as well as for maintenance. The present value of the entire property and assets is estimated at \$2,800,000.

The institution was incorporated February 28, 1867, under the name of the Illinois Industrial University, and placed under the control of a Board of Trustees, constituted of the Governor, the Superintendent of Public Instruction and the President of the State Board of Agriculture, as *ex-officio* members, and twenty-eight citizens appointed by the Governor. The chief executive officer was called Regent, and was made an *ex-officio* member of the Board and presiding officer both of the Board of Trustees and of the Faculty.

In 1873 the Board of Trustees was reorganized, the number of appointed members being reduced to nine and of *ex-officio* members to two—the Governor and the President of the State Board of Agriculture. In 1887 a law was passed making membership elective, at a general state election, and restoring the Superintendent of Public Instruction as an *ex-officio* member. There are, therefore, now three *ex-officio* and nine elective members. Since 1873 the President of the Board has been chosen by the members from among their own number for a term of one year.

The University was opened to students March 2, 1868. The number of students enrolled at this time was about fifty, and the Faculty consisted of the Regent and three professors. During the first term another instructor was added, and the number of students increased to 77—all young men.

During the first term instruction was given in algebra,

geometry, physics, history, rhetoric, and Latin. Work on the farm and gardens, or about the buildings, was at first compulsory for all students. In March of the next year, however, compulsory labor was discontinued, save when it was made to serve as a part of class instruction. A chemical laboratory was fitted up during the autumn of 1868. Botanical laboratory work began the following year. In January, 1870, a mechanical shop was fitted up with tools and machinery, and here was begun the *first shop instruction* given in any American university. During the summer of 1871 the Wood Shops and Testing Laboratory, burned on June 9, 1900, were erected and equipped for students' shop work in both wood and iron.

By vote, March 9, 1870, the Trustees admitted women as students. During the year 1870-71 twenty-four availed themselves of the privilege. Since that time they have constituted from one-sixth to one-fifth of the total number of students.

According to the original state law, the usual diplomas and degrees could not be granted by the University, but certificates showing the studies pursued and the attainments in each were given instead. The certificates proved unsatisfactory to the holders, and in 1877 the legislature gave the University authority to confer degrees and issue diplomas.

In 1885 the legislature changed the name of the institution to the "University of Illinois."

In 1890 the Congress of the United States made further appropriations for the endowment of the institutions founded under the act of 1862. Under this enactment each such college or university received the first year \$15,000, the second \$16,000, and thereafter was to receive \$1,000 per annum additional to the amount of the preceding year, until the amount reached \$25,000, which sum was to be paid yearly thereafter.

May 1, 1896. *the Chicago College of Pharmacy*, founded in 1859, became the *School of Pharmacy of the*

*University of Illinois.* Its building is located at Michigan Boulevard and Twelfth Street, Chicago.

Pursuant to action of the Board of Trustees, taken December 8, 1896, the *School of Law* was organized, and opened September 13, 1897. The course of study covered two years, in conformity with the existing requirements for admission to the bar of Illinois. In the following November, however, the supreme court of the state announced rules relating to examinations for admission to the bar which made three years of study necessary, and the course of study in the Law School was immediately rearranged on that basis. On February 9, 1900, the name of the School of Law was changed, by vote of the Board of Trustees, to *College of Law*.

Negotiations looking to the affiliation of the College of Physicians and Surgeons, of Chicago, with the University, which had been going on for several years, were concluded by the Board of Trustees, March 9, 1897. According to the agreement made, the College of Physicians and Surgeons became on April 21, 1897, the *College of Medicine of the University of Illinois*. The College is located at Congress and Honore Streets, Chicago.

In 1897, the matter of the reorganization of the University Library was considered by the Board of Trustees, with the result that the School of Library Economy which had been established in 1893 at the Armour Institute of Technology, in Chicago, was transferred to the University, and the Director of that school was appointed librarian of the University Library. In accordance with these plans the *State Library School* was opened at the University in September, 1897.

Pursuant to action taken by the Board of Trustees March 12, 1901, a School of Dentistry was organized as a department of the College of Medicine. The School was opened October 3, 1901. The name was changed to College of Dentistry April 27, 1905.

## BUILDINGS AND GROUNDS

The land occupied by the University and its several departments embraces about 220 acres.

*The Agricultural Building*, erected at a cost of \$150,000, consists of four separate structures, built around an open court and connected by corridors. The main building contains offices, class rooms, and laboratories for the departments of agronomy, animal husbandry, dairy husbandry, horticulture, and veterinary science; offices of the State Entomologist; the chemical laboratory of the Experiment Station; commodious administration rooms; an assembly room with a seating capacity of 500, and on each floor a fireproof vault for records. The other three buildings are each two stories high; one is for dairy manufactures, one for farm machinery, and one for veterinary science and stock judging. These buildings are of stone and brick, roofed with slate, and contain, all told, 113 rooms and a total floor space of nearly two acres. An adjacent glass structure serves the departments of agronomy and horticulture. There are, in addition to these buildings, a veterinary hall, three dwellings, three large barns, and a greenhouse.

*The Armory*, which has a clear floor space of 15,000 square feet in one grand hall, gives ample space for company drill and for large audiences upon special occasions.

*The Astronomical Observatory* is in the form of the letter T, the stem of which extends toward the south. The equatorial room, surmounted by the dome, is at the intersection of the stem and bar of the T. Besides the equatorial room the Observatory contains four transit rooms, a clock room, a recitation room, and a study.

*The Central Heating Station* is a brick building, 55 by 120 feet. It contains boilers of 1800 horse power, which furnish steam for heating and power purposes for the buildings on the campus. An annex contains the pump room and the stock room. The pipes of the heating sys-

tem and the wires for power and light are carried from the Central Heating Station to the several buildings through brick tunnels. The length of tunnel thus far constructed is 3,200 feet.

*The Chemical Laboratory* is a three-story building, the ground plan of which is shaped like the letter E. The extreme dimensions are 230 feet along the front and 116 feet along the wings. The middle rear wing contains the lecture amphitheater, which will seat 350. The end wings contain the large general laboratories. The central part of the building is occupied by offices, museum, class and seminary rooms, supply rooms, etc., and a number of special rooms for research work. There is a well-lighted basement, which contains the heating and ventilating plant, and rooms for assaying and metallurgy. In this building are also located the offices and equipment of the State Water Survey and the State Geological Survey.

*The Electrical Engineering Laboratory* is a brick building two stories high, 100 feet by 50 feet, with a wing 90 feet by 50 feet. A basement under the main part contains a large storage battery, and supply rooms; the main floor is the laboratory proper, containing the electrical apparatus described elsewhere; the second floor has recitation and computing rooms, the two photometers, and an office. The wing contains the automatic telephone exchange of the University, and the light and power plant of 200 kilowatts capacity.

*Engineering Hall* has a frontage of 200 feet, a depth of 76 feet on the wings, and 138 feet in the center. The first story contains the laboratories of the department of physics, the drafting room, and one recitation room of the department of electrical engineering, the masonry laboratories, instrument rooms, and workshop of the department of civil engineering. The second story contains the lecture room and the preparation rooms of the department of physics, the recitation and drawing rooms, cabinets,

and studies of the departments of civil and of municipal engineering and the office of the department of electrical engineering. The third story contains the elementary laboratory of the department of physics, the drawing rooms, lecture rooms, cabinets, and studies of the mechanical department, as well as the dean's offices, the faculty parlor, and library. The fourth story is devoted to the department of architecture, and contains drawing and lecture rooms, cabinets, a photograph studio, a blue-print laboratory, and the architectural library.

*The Laboratory of Applied Mechanics* is a brick building. The materials testing laboratory occupies the front, while the rear wing contains the hydraulic laboratory.

*The Mechanical Engineering Laboratory* is a brick building with a frontage of 120 feet and a total depth of 182 feet. The front section is two stories high, and contains offices, lecture and computation rooms, and a large instrument room. Back of this are three bays with saw-tooth roof construction. The middle bay is provided with a concrete testing floor and a 10-ton three-motor traveling crane of 38-feet span. The north bay contains a 5-ton traveling crane and for the present will be used for laboratory work in connection with the departments of civil and electrical engineering and theoretical and applied mechanics.

*The Library Building* contains the general University library and, temporarily, some administrative offices. The main floor contains the reference room, the reading room, the cataloguing room, and the delivery room, which opens into the second story of the book-stack. The second floor contains the Library School study room, seminary rooms, the Bolter collection of insects, and the administrative offices of the University. The Library School lecture rooms are in the basement. The book-stack is a rear wing to the building, separated from the rest of it by a fireproof wall. The stack will eventually contain five stories, and

will accommodate 150,000 volumes. At present but three stories are fitted with shelving.

*The Men's Gymnasium* is a three-story building of stone and pressed brick, 100 by 150 feet. On the first floor there is a swimming pool, lined with white enamel bricks, 26 feet wide, 75 feet long, and 8 feet deep at the lower end. This floor contains, also, the general locker room, which is fitted up with all-metal lockers, and with shower, tub, and steam baths; rooms for the University athletic teams; a room for visiting teams; a special dressing room for members of the faculty; and offices for the physical director and athletic instructors. The entire second floor is one large room, which is fitted up with all the modern appliances for gymnastic exercises. The third floor contains an elevated running track, 15 laps to the mile, which is properly banked on the turns to secure the greatest speed and comfort in running.

*The Metal Shops* is a one-story brick building, containing a lecture room, two office rooms, a machine shop, and a forge shop. The machine shop is 48 by 140 feet. Power is supplied by a 20 H. P. electric motor. A three-ton traveling crane of 12 foot span covers the center of the floor for the entire length.

*Natural History Hall* is occupied by the departments of botany, zoology, physiology, mineralogy, and geology, for each of which there are laboratories, lecture rooms, and offices. There are six laboratory rooms on each of the main floors,—sufficient altogether to accommodate 200 students, besides offering abundant facilities for the private work of the instructors.

*The Pumping Station* of the University water-works is a brick building, 38 by 73 feet, connected with the Central Heating Plant. Two 8-inch wells, 145 feet deep, supply the University with wholesome water. A ma-

sonry reservoir provides for a fire-reserve supply. The pumps, tanks, and connections are arranged to give opportunities for experimental work and also to vary the working conditions in the adjacent hydraulic laboratory.

*University Hall* occupies three sides of a quadrangle, devoted almost exclusively to class rooms.

*The Woman's Building*, which was opened for use in the fall of 1905, is in pure New England colonial style of architecture, of reddish brown brick, with white stone trimmings. The central part of the structure is the woman's gymnasium. On the lower floor there is a swimming tank, abundant room for lockers, dressing rooms and baths. The upper floor is devoted to the main gymnasium, which is 92 by 50 feet. The play ground adjacent to the gymnasium includes basket ball, tennis, and hockey courts, with ample room for other games. The north wing of the building is given to the department of household science, and the south wing provides rooms for the social life of the women students.

*The Wood Shop and Foundry* occupies a brick building. The part of the building devoted to the wood shop contains a bench room, lathe room, machine room, and various smaller rooms for lectures, exhibition purposes, etc. The part devoted to the foundry has a large molding floor traversed by a 5-ton traveling crane, and a large basement room for storage of materials.

## LABORATORIES\*

### SCIENCE LABORATORIES

The *botanical, geological, physiological, zoölogical, and ceramic laboratories* are in Natural History Hall.

The *chemical laboratory* occupies the building of the same name, already described.

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\*For a more detailed account of these laboratories, see under the appropriate College.

The *physical laboratory* is in Engineering Hall.

The *psychological laboratory*, in University Hall, is well provided with apparatus of many different kinds for use in experimental study, research, and instruction.

### ENGINEERING LABORATORIES

The *cement laboratory* of the department of civil engineering occupies rooms in the basement of Engineering Hall.

The *electrical engineering laboratory* and the *mechanical engineering laboratory* each occupies its own building, as already described under "Buildings and Grounds."

The *hydraulic laboratory* and the *materials testing laboratory* occupy the Laboratory of Applied Mechanics.

### SPECIAL LABORATORIES FOR RESEARCH

The *chemical laboratory of the Agricultural Experiment Station* and the *physical and bacteriological laboratories* for the examination of soils are situated on the third floor of the Agricultural Building.

The laboratory rooms of the *State Laboratory of Natural History* are in Natural History Hall.

A *Biological Station*, equipped for field and experimental work in aquatic biology, is maintained on the Illinois River by the State Laboratory of Natural History. It has its separate staff, but is open to students of the University at all times, on application, and during the summer months to special students not connected with the University.

A *laboratory for sanitary water analysis* has been equipped with all necessary appliances, and chemical investigation of the water supplies of the state is carried on.

A *laboratory of economic geology*, for the investigation of clays, lime and cement-making materials, building stones, road metal, and all other mineral substances of

economic value, has been equipped with the necessary appliances for such investigations.

A fully equipped *laboratory of ceramics* has been recently established for the study of clays and clay products with reference to their properties and the methods of treatment which will produce the best wares.

## COLLECTIONS

AGRICULTURAL.—The various agricultural departments maintain collections illustrative of their work, prominent among which are those showing typical specimens of standard varieties of corn, wax models of fruit and vegetables, an extensive horticultural herbarium, specimens of many breeds of live stock, a large collection of farm machinery, and exhibits of negatives and samples showing progress of certain investigations, especially with fruit and corn.

BOTANICAL.—The *herbarium* contains about 50,000 mounted specimens of plants. The flora of North America is fairly well represented, the collection of species of flowering plants indigenous to Illinois is particularly complete, and a considerable collection of foreign species has been made. The collections of fungi amount to 32,000 named specimens and include a full set of those most injurious to other plants, causing rusts, smuts, moulds, etc. There are specimens of wood from 200 species of native trees and shrubs, which well illustrate the varieties of native wood.

COMMERCIAL.—For its courses in industrial economics and commerce the University has a good working collection of the materials of commerce. A lantern and several hundred slides, a liberal supply of political and industrial maps, diagrams and stereoscopic views illustrating various phases of commerce and industry. The bulk of the articles constituting the commercial museum is the gift of the Philadelphia Commercial Museum.

ENGINEERING.—The following departments of the College of Engineering have made extensive and valuable collections, which are placed in rooms in Engineering Hall.

*Architecture:* A large number of specimens of stone, bricks, terra cotta, sanitary fixtures, casts of moldings and of ornament have been accumulated, together with some excellent specimens of industrial arts, models of structures, working drawings of important buildings, 4,500 lantern slides, 20,000 plates and photographs, and an excellent working library, with large classified collections of plates from architectural journals, and 1,800 stereoscopic views of buildings, etc. A complete set in 10 Vols. of Hough's American Woods, 250 species shown by three sections each. Larger Hough's hand specimens of 300 American woods comprising 3 to 4 pieces in each. Collection of builders' hardware and fixtures.

*Civil Engineering.*—The civil engineering department has a large room containing samples of iron, steel, wood, brick, and stone; materials for roads and pavements; models of arches and trusses, one of the latter being full-sized details of an actual modern railroad bridge. The department also possesses a very large collection of photographs and blue-print working drawings of bridges, metal skeleton buildings, masonry structures, and standard railroad construction.

*Electrical Engineering.*—This department has a collection of samples illustrating standard practice in the industrial applications of electricity. There is also a rapidly growing collection of lantern slides, photographs, blue-prints, drawings, pamphlets, and other engineering data.

*Mechanical Engineering.* — This department has among other things a partial set of Reuleaux models, together with models of valve gears, sections of steam pumps, injectors, valves, skeleton steam and water gauges, standard packings, steam-pipe coverings, and drop forgings. There are also examples of castings, perforated

metal, defective boiler plates, and set of drills, with numerous samples of oil, iron, and steel. A large number of working drawings from leading firms and from the United States Navy Department forms a valuable addition to the above collections.

GEOLOGICAL.—*Lithology* is represented by type collections of rocks (9,000 specimens), arranged to illustrate Rosenbusch; from Voigt and Hochgesang, L. Eger, and A. Kranz; a type collection from Ward; 1,000 thin sections of rocks and minerals; a large number of ornamental building stones; a stratigraphic collection to illustrate Illinois geology, and a collection of Illinois soils (104).

The *mineralogical* collection is especially rich in rock-forming minerals, ores, and materials of economic value. It contains over 12,000 specimens carefully selected to meet the wants of the students, and 575 crystal models, a considerable collection of gems and precious stones, and one of polished marbles, granites, and other ornamental stones has recently been added.

The *paleontological* collection (49,000 specimens) contains representative fossils from the entire geologic series, but is especially rich in paleozoic forms. It embraces the private collections of A. H. Worthen (including 742 type specimens); Tyler McWhorter; Mr. Hertzer; 200 thin sections of corals; the Ward collection of casts, and a considerable number of special collections representing the fauna and flora of particular groups.

LIBRARY ECONOMY.—A collection of books and pamphlets on library science, of library reports and catalogs, of mounted samples showing methods of administration in all departments, and of labor-saving devices and fittings has been made, and is arranged by the Dewey Decimal classification in the Library School seminary room.

PEDAGOGICAL.—In the rooms of the department of education in University Hall is a considerable collection

of illustrative material from the manual training departments of various schools; photographs of school buildings, drawings and constructive work by pupils in the public schools, and the nucleus of a representative collection of apparatus for the school laboratory.

ZOÖLOGICAL.—The *zoölogical* collections have been specially selected and prepared to illustrate the courses of study in natural history, and to present a synoptical view of the zoölogy of the state.

The mounted mammals comprise an unusually large and instructive collection of the ruminants of our country, including male and female moose, elk, bison, deer, antelope, etc., and also several quadrumana, large carnivora and fur-bearing animals, numerous rodents, good representative marsupials, cetaceans, edentates, and monotremes. Fifty-nine species of this class are represented by one hundred and one specimens and all the others, excepting the Sirenia, are represented by mounted skeletons. There is also a series of dissections in alcohol, illustrating the comparative anatomy of the group.

The collection of mounted birds includes representatives of all the orders and families of North America, together with a number of characteristic tropical, Bornean, and New Zealand forms. The collection is practically complete for Illinois species. There is also a fine collection of the nests and eggs of Illinois birds. A series of several hundred unmounted skins is available for the practical study of species, and the internal anatomy is shown in alcoholic dissections, and in mounted skeletons of all the orders.

The cold-blooded vertebrates are represented by a series of mounted skins of the larger species, both terrestrial and marine; mounted skeletons of typical representatives of the principal groups; alcoholic specimens, both entire and dissected, and casts. The alcoholics include series of the reptiles, amphibians, and fishes, the latter comprising about 300 species. The dissections il-

illustrate the internal anatomy of the principal groups. The casts represent about seventy-five species, nearly all fishes.

The Mollusca are illustrated by alcoholic specimens of all classes and orders, and dissections showing the internal anatomy of typical forms. There are several thousand shells belonging to 1,700 species. The collection of Illinois shells is fair but incomplete.

The collection of insects has been greatly extended and enriched by the Bolter Collection, donated to the University by the executors of the estate of the late Andreas Bolter, of Chicago, which now contains over 16,000 species, represented by about 120,000 specimens, named, labeled, and systematically arranged.

The lower invertebrates are represented by several hundred dried specimens and alcoholics and by a large series of the famous Blaschka glass models.

The embryology of vertebrates and invertebrates is illustrated by several sets of Ziegler wax models, and numerous series of slides, sections, and other preparations.

In addition to the above, the extensive collections of the State Laboratory of Natural History are available for illustrative purposes, as well as for original investigation by advanced students.

## ART GALLERY

The University Art Gallery was the gift of citizens of Champaign and Urbana. It occupies a room in the basement of the Library Building, and furnishes an excellent collection of models for students of art. In sculpture it embraces thirteen full-size casts of celebrated statues, forty statues of reduced size, and a large number of busts and bas-reliefs, making in all over 400 pieces. It includes also hundreds of large autotypes, photographs, and fine engravings, representing many of the great masterpieces of painting of nearly all the modern schools, and a gallery of historical portraits, mostly large French lithographs,

copied from the great national portrait galleries of France.

Other collections of special value to art students embrace a large number of casts of ornament from the Alhambra and other Spanish buildings, presented by the Spanish government; a set of casts from Germany, illustrating German renaissance ornament; a series of art works from the Columbian Exposition; and large numbers of miscellaneous casts, models, prints, and drawings, such as are usually found in the best art schools.

## LIBRARIES

The general University library, the library of the State Laboratory of Natural History, that of the Agricultural Experiment Station, and that of the College of Law are all at the University in Urbana. The libraries of the Colleges of Medicine and Dentistry and the School of Pharmacy are in Chicago.

The general University library, including the Agricultural Experiment Station library, contains 74,326 volumes and 11,000 pamphlets. The reading room contains over 3,100 bound volumes of periodicals. The University has a subscription list of 1,031 periodicals, the current numbers of which are kept in the reading room. The library of the State Laboratory of Natural History contains 5,600 volumes and 16,050 pamphlets. The Library of the College of Law contains the Federal and State Reports, the leading text-books, and a line of leading periodicals. The department of education has made a special collection of about 1,500 books and 3,000 pamphlets, which are kept in the rooms of the department in University Hall. This collection contains a very good assortment of modern text-books, and copies of the courses of study of nearly all the large city school systems.

The libraries of the Colleges of Medicine and Dentistry and the School of Pharmacy are described further on in the catalog, in connection with these institutions.

The general library at the University is open daily, except Sunday, from 8 a. m. until 10 p. m.

The Public Library of the City of Champaign contains the valuable library of western history collected by Edward G. Mason, Esq., long President of the Chicago Historical Society. The collection is thus made accessible to University students.

## ACCREDITED HIGH SCHOOLS

HORACE A. HOLLISTER, A.M., High School Visitor

The University employs a high school visitor, whose business is to inspect the high schools of the state. The University bears the expense of such inspection, but does not send the visitor to any school not already accredited until a request is made for such visit, together with a report on the work of the school which shows that its course of study is such as to merit the attention of the University. After inspecting a school the visitor reports upon it to the Council of Administration of the University, and upon approval the school is added to the list of accredited schools. Students coming to the University from an accredited school are excused from entrance examinations in those subjects which they have pursued there satisfactorily and which are accepted for admission to the University. The University accredits all work which is sufficiently well done. The schools in the list below are therefore not all accredited for the same amount of work, nor for the same subjects.

## LIST OF ACCREDITED SCHOOLS

The following high schools, having all the prescribed units, and enough others to make up the total number

(14) of units required, are in the list of fully accredited schools :

| SCHOOL                           | SUPERINTENDENT         | PRINCIPAL           |
|----------------------------------|------------------------|---------------------|
| Alton                            | R. A. Haight           | J. E. Turner        |
| Anna                             | H. C. Fletcher         | C. A. Barnhart      |
| Arcola                           | A. F. Lyle             | Mary Ewing          |
| Ashland                          | J. E. Shivers          | Petra Dahl          |
| Ashton                           | Harry B. Price         | Louise Bates        |
| Assumption                       | John Scrugham          | Frances Butterfield |
| Atlanta                          | Anthony Middleton      | Bertha Denning      |
| Aurora (East,                    | C. M. Bardwell         | C. L. Phelps        |
| Aurora (West)                    | A. V. Greenman         | Claude P. Briggs    |
| Batavia (East)                   | L. E. Wentzel          | L. F. Wentzel       |
| Batavia (West)                   | C. E. Mann             | Eleanor Johnston    |
| Beardstown                       | J. Gladden Hutton      | Elva J. Saunders    |
| Belvidere (North)                | E. Merriman            | Flora Fellows       |
| Belvidere (South)                | C. H. LeVitt           | Myrtle Strickler    |
| Bement                           | Edgar Vines            | W. P. Miller        |
| Bloomington                      | J. K. Stableton        | E. L. Boyer         |
| Blue Island                      | (Township High School) | J. E. Lemon         |
| Burlington, Ia.                  | Francis M. Fultz       | Maurice Ricker      |
| Cairo                            | Taylor C. Clendenen    | W. D. Bannister     |
| Camp Point                       | S. S. Simpson          | Nellie L. Yunk      |
| Canton                           | G. W. L. Meeker        | C. E. Lawyer        |
| Carlinville                      | J. E. Wooters          | Margaret Hubbard    |
| Carlyle                          | John W. Fisher         | M. N. Todd          |
| Carmi                            | R. W. Jennings         | H. A. O'Brien       |
| Carrollton                       | J. R. Sparks           | George Sype         |
| Carthage                         | Matthew Andrews        | Emily Pennock       |
| Carthage Col. Acad.              |                        | W. K. Hill          |
| Centralia (Township High School) |                        | C. H. Elliott       |
| Champaign                        | Joseph Carter          | Charlotte Switzer   |
| Charleston                       | DeWitt Elwood          | Chas. Lecrone       |
| Chenoa                           | E. W. Davis            | A. Agnes Dillon     |
| Chester                          | James E. Raiborn       | D. O. Jones         |
| Chicago—                         | E. G. Cooley           |                     |
| Austin                           | "                      | Geo. H. Rockwood    |
| Calumet                          | "                      | Avon S. Hall        |
| Englewood                        | "                      | J. E. Armstrong     |
| R. T. Crane. Man. Tr. High       | "                      | A. R. Robinson      |
| Hyde Park                        | "                      | Hiram B. Loomis     |
| Jefferson                        | "                      | Charles A. Cook     |
| Lake                             | "                      | Edward F. Stearns   |
| Lake View                        | "                      | Benj. F. Buck       |
| McKinley                         | "                      | Geo. N. Clayberg    |
| Marshall                         | "                      | Louis J. Block      |

| SCHOOL                               | SUPERINTENDENT            | PRINCIPAL            |
|--------------------------------------|---------------------------|----------------------|
| Chicago—                             |                           |                      |
| Medill                               | E. G. Cooley              | Edw. C. Rosseter     |
| Northwest Division                   | "                         | Franklin P. Fisk     |
| Robert A. Waller                     | "                         | Oliver S. Westcott   |
| South Chicago                        | "                         | Chas. I. Parker      |
| Wendell Phillips                     |                           | Spencer R. Smith     |
| Chicago Heights                      | (Twp. High School)        | Edward Sargent       |
| Chicago Man. Tr. High School,        | H. H. Belfield, Director. |                      |
| Chillicothe                          | J. H. Grigg               | Katharine Scarry     |
| Chrisman                             | G. H. Henry               | Helen E. Booker      |
| Clinton                              | Frank L. Horn             | Martha Hunt          |
| Clinton, Ia.                         | O. P. Bostwick            | J. S. McCowan        |
| Clyde (J. Sterling Morton Twp H. S.) |                           | H. V. Church         |
| Colfax                               | Alva Ragsdale             | Persis E. Pryse      |
| Covington, Ind.                      | H. S. Kaufman             | Josephine Calhoun    |
| Crystal Lake (P. O. Nunda)           | A. M. Shelton             | Edna P. Beers        |
| Danville                             | L. H. Griffith            | Z. M. Smith          |
| Davenport, Ia.                       | J. B. Young               | W. D. Wells          |
| Decatur                              | E. A. Gastman             | S. W. Ehrman         |
| DeKalb (Township High School)        |                           | Frederick Giles      |
| Delavan                              | C. A. Waldron             | Edgar B. Wells       |
| Dixon (North)                        | H. V. Baldwin             | May Chalfant         |
| Dixon                                | L. B. Neighbour           | Arthur N. DeLong     |
| Downer's Grove                       | L. G. Avery               | M. Maude Manley      |
| Dubuque, Ia.                         | F. T. Oldt                | F. L. Smart          |
| Dundee                               | Julia M. Gay              | Julia M. Gay         |
| DuQuoin                              | C. W. Houk                | M. S. Moore          |
| Dwight                               | R. C. Rennick             | Pearl Bryning        |
| Earlville                            | G. V. Clum                | J. E. Clum           |
| East St. Louis                       | John E. Miller            | Chas. Manners        |
| Edwardsville                         | T. M. Birney              | Chas. F. Ford        |
| Elgin                                | M. A. Whitney             | N. S. Goble          |
| Elgin Academy                        |                           | Geo. N. Sleight      |
| Elmhurst Evangelical Proseminar      |                           | D. Irion, President  |
| Elmwood                              | C. S. Stewart             | Lilian Lane          |
| ElPaso (East)                        | David H. Wells            | Nelle Welles         |
| Eureka                               | T. H. Meek                | Louise Gill          |
| Evanston (Township High School)      |                           | Wilfred F. Beardsley |
| Fairbury                             | E. C. Green               | Myrtle Ballard       |
| Farmer City                          | C. C. Covey               | Effie M. Tull        |
| Farmington                           | L. B. Mansell             | Emma Mowery          |
| Forrest                              | W. H. Martin              | Grace Lewis          |
| Francis W. Parker School (Chicago)   |                           | Flora Cook           |
| Freeport                             | S. E. Raines              | L. A. Fulwider       |
| Fulton                               | Louis Eigel               | Irma E. Voigt        |
| Galena                               | P. H. Clark               | Miss Bernard         |
| Galesburg                            | W. L. Steele              | F. D. Thompson       |

| SCHOOL                                  | SUPERINTENDENT         | PRINCIPAL             |
|---|------------------------|-----------------------|
| Galva                                   | Fred U. White          | Anne Edwards          |
| Geneseo                                 | H. B. Fisher           | Mrs. Lillian Deming   |
| Geneva                                  | E. A. Ellis            | Sara Sherman          |
| Gibson City                             | A. P. Johnson          | Margaret Nicholson    |
| Gilman                                  | F. A. Gilbreath        | F. L. Holch           |
| Girard                                  | Heywood Coffield       | J. H. McCallister     |
| Grand Prairie Seminary (Onarga)         |                        | H. H. Frost           |
| Greenview                               | R. C. Hiett            | Bettie E. Tripp       |
| Greenville                              | C. N. Peak             | Mamie E. Graff        |
| Griggsville                             | David P. Hollis        | Clara Penstone        |
| Harrisburg (Township High School)       |                        | Harry Taylor          |
| Harvard                                 | R. G. Jones            | Minnie L. Jones       |
| Harvey (Thornton Twp. High School)      |                        | J. E. Cable           |
| Havana                                  | W. H. D. Meier         | Sara E. Pierce        |
| Hebron                                  | Willard E. King        | Katharine Robinson    |
| Henry                                   | Henry Tupper           | Mary Smeltzly         |
| Highland Park                           | (Deerfield Twp. H. S.) | R. L. Sandwick        |
| Hillsboro                               | Wm. S. Harris          | E. L. Thompson        |
| Hinsdale                                | H. J. Jokisch          |                       |
| Hoopeston                               | Arthur Verner          | Ernest A. Miner       |
| Illinois Woman's College (Jacksonville) |                        | Jos. R. Harker, Pres. |
| Jacksonville                            | W. A. Furr             | A. H. Glasgow         |
| Jerseyville                             | J. Pike                | Edw. B. Shafer        |
| Joliet (Township High School)           |                        | J. Stanley Brown      |
| Kankakee                                | Franklin N. Tracy      | I. M. Allen           |
| Kansas                                  | W. R. Spurrier         | W. R. Spurrier        |
| Keithsburg                              | G. W. Gayler           | Pearl Belting         |
| Kenilworth (New Trier Twp. H. S.)       |                        |                       |
| Kenwood Institute (Chicago)             |                        | Isabel Buckingham     |
| Keokuk, Ia.                             | William Aldrich        | Jesse Benjamin        |
| Kewanee                                 | J. N. Adee             | Arthur Brookfield     |
| Knoxville                               | W. F. Jones            | Mina VanCleve         |
| Lacon                                   | Chas. E. Knapp         | Dorothy Stonebraker   |
| LaGrange (Lyons Twp. High School)       |                        | E. R. Cole            |
| LaHarpe                                 | A. S. Anderson         | A. S. Anderson        |
| Lake Forest Academy                     |                        | Wm. N. McKee          |
| Lanark                                  | O. W. Hoffman          | Maude Corbett         |
| LaSalle-Peru                            | (Twp. High School)     | Thos. McCormick       |
| LeRoy                                   | S. K. McDowell         | Ernest C. Potts       |
| Lewistown                               | G. B. Coffman          | Claude Belts          |
| Lexington                               | B. C. Moore            | Mildred Sonntag       |
| Lincoln                                 | L. D. Ellis            | O. S. Reinold         |
| Litchfield                              | C. E. Richmond         | A. H. Neisler         |
| Lockport                                | Geo. N. Snapp          | F. J. Wolfe           |
| McLeansboro                             | W. C. Fairweather      | H. L. Thrall          |
| Macomb                                  | W. W. Earnest          | Maria Hazle           |
| Mansfield                               | O. N. Kiger            | A. Clara Davis        |

| SCHOOL                             | SUPERINTENDENT     | PRINCIPAL             |
|------------------------------------|--------------------|-----------------------|
| Marengo                            | Charles W. Groves  | Gertrude Stull        |
| Marion                             | J. W. Asbury       | W. A. Cook            |
| Maroa                              | Geo. S. Morris     | Mary E. Christy       |
| Marseilles                         | F. M. Kline        | Bess Gill             |
| Marshall (Township High School)    |                    | Geo. T. Boyce         |
| Mason City                         | T. W. B. Everhart  | Mrs. E. A. Naylor     |
| Mattoon                            | G. P. Randle       | Wm. Wallis            |
| Mendota (East)                     | W. R. Foster       | Genevieve Gilruth     |
| Mendota (West)                     | Chas. W. Parkinson | Myra J. Howes         |
| Metropolis                         | T. F. McCartney    | Mrs. R. E. Cutting    |
| Minonk                             | Wm. Hawkes         | Ethel Howell          |
| Moline                             | Girard T. Smith    | Edwin P. Nutting      |
| Momence                            | R. E. Selby        | Laura M. Chemey       |
| Monmouth                           | F. H. Bloodgood    | Wm. L. Hanson         |
| Monticello                         | J. T. Gale         | Maude Marlin          |
| Morgan Park (Township High School) |                    | J. E. Heil            |
| Morris                             | Rupert Simpkins    | Joseph Hunter         |
| Morrison                           | W. E. Weaver       | Alberta Clark         |
| Mt. Carmel                         | W. S. Booth        | Harriett Berninger    |
| Mt. Carroll                        | J. F. Casebeer     | Gertrude DeForest     |
| Mt. Morris College (Preparatory)   |                    | John E. Miller, Pres. |
| Mt. Pulaski                        | P. M. Hoke         | E. W. Schmitgen       |
| Mt. Sterling                       | J. H. Ehlers       | Ida M. Schaible       |
| Mt. Vernon (Township High School)  |                    | James M. Dickson      |
| Moweaqua                           | Wm. Harris         | J. E. Longenbaugh     |
| Murphysboro (Township High School) |                    | E. E. McLaughlin      |
| Naperville (Ellsworth)             | F. A. Kendall      | Rosa Waugh            |
| Newman                             | O. R. Hedden       | Verna M. Good         |
| Newton                             | Chas. A. Bevis     | Letta L. Johnson      |
| Nokomis                            | W. P. Thacher      | Charlotte Holmes      |
| Normal                             | Enoch A. Fritter   | L. F. Fulwiler        |
| North Park College (Chicago)       | A. W. Frederickson |                       |
| Oak Park and River Forest Twp.     | H. S.              | John C. Hanna         |
| Odell                              | C. F. VanDoren     | Cora E. Petty         |
| Olney                              | G. D. Wham         | J. O. Marberry        |
| Onarga                             | J. H. Whitten      | Elizabeth Rodhouse    |
| Oregon                             | G. C. Griswold     | Frank G. Taylor       |
| Ottawa (Township High School)      |                    | J. O. Leslie          |
| Pana                               | William Miner      | J. W. D. Butcher      |
| Paris                              | E. B. Brooks       | Bertha Miller         |
| Paw Paw                            | F. J. Snapp        | H. G. Kueller         |
| Paxton                             | O. J. Bainum       | A. F. Trams           |
| Pekin                              | James J. Crosby    | J. H. Browning        |
| Peoria                             |                    | A. W. Beasley         |
| Petersburg                         | H. E. Waits        | Emma Bigelow          |
| Pittsfield                         | S. T. Robinson     | Emma Moore            |

| SCHOOL  | SUPERINTENDENT         | PRINCIPAL          |
|---|------------------------|--------------------|
| Plano   | W. S. King             | L. A. Pringle      |
| Polo  | Frank D. Haddock       | Clara Buswell      |
| Pontiac (Township High School)                          |                        | C. E. DeButts      |
| Princeton (Township High School)                        |                        | H. S. Magill, Jr.  |
| Quincy  | D. B. Rawlins          | V. K. Froula       |
| Rantoul   | E. H. Miller           | Agnes McDougall    |
| Riverside   | A. F. Ames             | Edw. L. Hardy      |
| Robinson  | James C. Arnold        | F. S. Davis        |
| Rochelle  | C. E. Joiner           | Etta M. Hunter     |
| Rock Falls  | Theodore H. Haney      | Etta Grunewald     |
| Rockford  | P. R. Walker           | E. U. Graff        |
| Rockford College  | Preparatory Department |                    |
| Rock Island   | H. B. Hayden           | H. E. Brown        |
| Roodhouse   | Harvey T. White        | James F. Pinkerton |
| Roseville (Township High School)                        |                        | A. C. Booz         |
| Rossville   | I. A. Smothers         | Lewis B. Mull      |
| Rushville   | Henry H. Edmunds       | Francis E. Dace    |
| St. Charles   | H. W. Monical          | Gertrude Neal      |
| St. Louis, Mo.  | F. Louis Soldan        | W. J. S. Bryan     |
| St. Mary's Academy (Joliet)                             |                        | Rev. M. Ignatia    |
| Sandwich  | W. W. Woodbury         | Lillian Buckhiser  |
| Savanna (Township High School)                          |                        | W. S. Wallace      |
| Sheffield   | Chas. F. Law           | Chas. F. Law       |
| Shelbyville   | A. C. Cohagen          | Egbert Winter      |
| Sheldon   | J. J. Ferguson         | W. C. Chapman      |
| Southern Collegiate Institute (Albion)                  |                        |                    |
|   | F. B. Hines            | G. W. Bince        |
| So. Ill. State Normal High School Dept.<br>(Carbondale) |                        |                    |
| Sparta  | S. B. Hood             | L. J. Sexton       |
| Springfield   | Edward Anderson        | L. M. Castle       |
| Sterling (Township High School)                         |                        | E. T. Austin       |
| Streator (Township High School)                         |                        | Ralph R. Upton     |
| Sullivan  | M. S. Vance            | O. B. Lowe         |
| Sycamore  | H. A. Bone             | Sarah E. Robinson  |
| Taylorville (Township high school)                      |                        | W. E. Andrews      |
| Terre Haute, Ind.                                       | William Wiley          | C. J. Waits        |
| Toulon Academy  |                        | W. F. Nicholson    |
| Tuscola   | E. E. Giltner          | F. W. Thomas       |
| Urbana  | J. W. Hays             | J. A. Fairchild    |
| Viriden   | J. C. Walters          | E. L. King         |
| Warren  | M. M. Warner           | Olivette M. Buser  |
| Washington  | L. I. Knight           | G. H. Coons        |
| Waukegan  | Miriam Besley          | W. J. Stebbins     |
| Wenona  | H. J. Bassler          | Jessie E. Rambo    |
| Western Military Academy (Upper Alton)                  |                        |                    |
|   | Albert M. Jackson      | Geo. D. Eaton      |

| SCHOOL        | SUPERINTENDENT | PRINCIPAL         |
|---------------|----------------|-------------------|
| Wheaton       | J. B. Russell  | Ella M. Gregg     |
| White Hall    | C. E. Avis     | Isabella Anderson |
| Whiting, Ind. | J. C. Hall     | F. W. Schacht     |
| Wilmington    | L. A. Mahoney  | Ira D. Yaggy      |
| Woodstock     | C. W. Hart     | Caroline Watson   |
| Wyoming       | J. B. Wallace  | Margaret Moore    |
| Yorkville     | E. C. Thomas   | Lepha McCleary    |

Following are the partially accredited schools :

|                                     |                        |                   |
|-------------------------------------|------------------------|-------------------|
| Aledo                               | Fred N. Taylor         | Mollie P. Taylor  |
| Auburn                              | C. E. Barker           | Lena Yarnell      |
| Augusta                             | S. Douglas Faris       | Mary E. Renich    |
| Belleville                          | Geo. H. Busick         | H. W. Brua        |
| Biggsville                          | (Township High School) | L. O. Culp        |
| Bunker Hill                         | L. T. Shaw             | Junia J. Smith    |
| Bushnell                            | W. H. H. Miller        | May Stewart       |
| Byron                               | A. Roy Mize            | Mary S. Hunter    |
| Cambridge                           | J. M. Markel           | Eva H. Gibbs      |
| Casey                               | L. A. Wallace          | Wm. G. Thompson   |
| Cerro Gordo                         | Fred T. Ullrich        | B. F. Heckman     |
| Chatsworth                          | Harvey L. Kessler      | Lilian Toler      |
| Collinsville                        | Samuel J. Curlee       | S. E. Ballard     |
| Effingham                           | C. W. Yerkes           | Margaret Meneely  |
| Elizabeth                           | Howard C. Storm        | Howard C. Storm   |
| El Paso (West)                      | C. H. Hittson          | Helen Tuthill     |
| Fairfield                           | W. G. Cisne            | C. M. Morrison    |
| Flora                               | J. A. Davis            | W. F. Thrall      |
| Franklin Grove                      | D. E. Boomer           | Florence M. Keyes |
| Granite City                        | L. P. Frohardt         | H. D. Waggoner    |
| Greenfield                          | Horace G. Russell      | Helen G. Russell  |
| Highland                            | Wm. M. Valentin        | Albert E. Arendt  |
| Hume                                | Frank Henderson        | Martha Van Duzer  |
| Lena                                | Jay R. Inman           | Sue L. Wilson     |
| Martinsville                        | H. C. Breese           | C. L. F. Ferrish  |
| Nashville                           | F. C. Prowdley         | John C. Chapin    |
| Neoga                               | G. W. Sutton           | Beulah Church     |
| Oakland                             | G. J. Koons            | E. F. Honn        |
| Palatine                            | M. L. Smyser           | M. L. Smyser      |
| Plainfield                          | L. H. Darling          | Clara A. Fritter  |
| Princeville                         | W. D. Edmunds          | Mrs. W. S. Baker  |
| Salem                               | A. E. Gilpin           | Ella Spencer      |
| Saybrook                            | Geo. N. Bradley        | Florence Bond     |
| Sugar Grove                         | E. M. Harris           | E. M. Harris      |
| Tiskilwa                            | A. M. Blood            | A. M. Blood       |
| Vandalia                            | W. H. Pyle             | A. M. Newton      |
| Vermilion Academy (Vermilion Grove) |                        | Edmund Albertson  |
| Vienna                              | S. F. Springer         | M. T. Van Cleve   |
| Virginia                            | Henry Jacobs           | K. H. Bellersheim |
| Winchester                          | B. F. Parr             | Laura M. Truscott |

## ADMINISTRATION OF THE UNIVERSITY

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GOVERNMENT.—The government of the University is vested by law primarily in the Board of Trustees. This Board consists of nine members elected by the people for a term of six years. The term of three members of the Board expires every second year.

Besides the elective members, the Governor of the State, the President of the State Board of Agriculture, and the Superintendent of Public Instruction are *ex-officio* members.

The administration of the University is vested by the Trustees in the President of the University, the Senate, the Council of Administration, the faculties of the different colleges and the Deans.

The President is the administrative head of the University.

The Vice-President has general oversight of the work of instruction in the University and acts for the President in case of his absence or disability.

The Dean of the Graduate School is responsible for carrying out University regulations concerning the Graduate School and is entrusted with special supervision of its work.

The Dean of each college is responsible for carrying out all University regulations within his college.

The Dean of Undergraduates acts as adviser to undergraduate male students and is charged with general care of the conduct of these students.

The Council of Administration is composed of the President, the Vice-President, the Dean of the Graduate

School, the Dean of Undergraduates, and the Deans of the separate colleges. It constitutes an advisory board to the President, *and has exclusive jurisdiction over all matters of discipline.*

The Council does not determine educational policy; but when any matter arises which has not been provided for by common usage, or by rule of the Senate, and cannot be conveniently laid over till the next meeting of the Senate, the Council may act upon the same according to its discretion.

The Senate, composed of those members of the faculty in charge of separate departments of the various colleges and schools, is charged with the direction of the general educational policy of the University.

The faculties of the different colleges and schools of the University, composed of the members of the corps of instruction of these colleges and schools, have jurisdiction over all matters which pertain exclusively to these organizations, subject always to higher University authority.

ORGANIZATION.—For the purpose of more efficient administration, the University is divided into several colleges and schools. This division does not imply that the colleges and schools are educationally separate. They are interdependent, and together form a unit. The colleges and schools are as follows:

- I. The College of Literature and Arts.
- II. The College of Engineering.
- III. The College of Science.
- IV. The College of Agriculture.
- V. The Graduate School.
- VII. The School of Music.
- VI. The School of Library Science.
- VIII. The College of Law.
- IX. The College of Medicine.
- X. The College of Dentistry.
- XI. The School of Pharmacy.

*The College of Literature and Arts* offers a wide range of subjects<sup>1</sup> in philosophy and arts, including:

1. Art.
  2. The ancient classical languages.
  3. English literature and language, including rhetoric.
  4. The Romanic languages, including French, Italian and Spanish.
  5. The Germanic languages, including German, Scandinavian, and Danish.
  6. The political and social sciences, including history, economics, sociology, anthropology, and science of government.
- The work in economics is so developed on the industrial side that, taken in combination with other subjects, it furnishes
7. Courses of training for business.
  8. Mathematics.
  9. Philosophical subjects, including philosophy, mathematics, psychology, education and ethics.
  10. Library Science, consisting of three years' College work, followed by the first year in the School of Library Science.
  11. Household Science.

*The College of Engineering* offers courses—

1. In Architecture.
2. In Architectural Engineering.
3. In Civil Engineering.
4. In Electrical Engineering.
5. In Mechanical Engineering.
6. In Municipal and Sanitary Engineering.
7. In Railway Mechanical Engineering.

*The College of Science* offers courses in—

1. General Science.
2. Chemistry.
3. Chemical Engineering.
4. Household Science.
5. Library Science.
6. Mathematics.
7. Physics.
8. Combined Course in Medicine and Science.

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<sup>1</sup>Besides the subjects mentioned under each college and school at Urbana, courses in Military Science and Physical Training are provided in all the colleges and schools.

9. Ceramics.
10. Ceramic Engineering.
11. Cement making.

*The College of Agriculture* offers courses in—

1. Agronomy.
2. Animal Husbandry.
3. Dairy Husbandry.
4. Horticulture.
5. Household Science.
6. Veterinary Science.

*The Graduate School* offers courses in twenty-seven distinct subjects, as follows: Agronomy, Animal Husbandry, Architecture, Botany, Chemistry, Civil Engineering, Economics, Education, Electrical Engineering, English Language and Literature, French, Geology, German, Greek, History, Horticulture, Household Science, Latin, Mathematics, Mechanical Engineering, Municipal and Sanitary Engineering, Philosophy, Physics, Physiology, Psychology, Thremmatology, and Zoölogy.

For further information see "General Description of Courses," beginning on page 208. The distinctively graduate courses are usually numbered 101, 102, etc., under each subject, but some of the courses open to undergraduates may also be taken for credit towards an advanced degree. See Graduate School, page 151.

*The School of Library Science*, or the State Library School, offers a course of study extending over five years, three of which are in either the College of Literature and Arts or the College of Science. The last two years are devoted to courses in Library Science in the Library School. The full course leads to the degree of bachelor of library science.

*The School of Music* offers courses in vocal and instrumental music, leading to the degree of bachelor of music.

*The College of Law* offers a course of study leading to the degree of bachelor of laws.

*The College of Medicine* offers a course of study leading to the degree of doctor of medicine.

*The School of Pharmacy* offers a course in all branches necessary to a complete scientific and practical knowledge of pharmacy, including pharmacy, chemistry, materia medica, botany, physics, and physiology. The course leads to the degree of graduate in pharmacy.

*The College of Dentistry* offers a three-year course leading to the degree of doctor of dental surgery.

# THE COLLEGES OF LIBERAL ARTS

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The departments of liberal arts are divided between the College of Literature and Arts and the College of Science, which, mainly for administrative reasons, are separately organized.

## FACULTY

EDMUND J. JAMES, PH.D., LL.D., PRESIDENT.

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EVARTS B. GREENE, PH.D., ACTING DEAN, College of Literature and Arts.

EDGAR J. TOWNSEND, PH.D., ACTING DEAN, College of Science.

### *In Art and Design—*

FRANK F. FREDERICK, Professor.

EDWARD J. LAKE, B.S., Assistant Professor.

ISABEL E. JONES, Instructor.

### *In Astronomy—*

JOEL STEBBINS, PH.D., Assistant Professor.

E. A. FATH, B.S., Instructor.

### *In Botany—*

T. J. BURRILL, PH.D., LL.D., Professor.

C. F. HOTTES, PH.D., Assistant Professor.

C. F. BRISCOE, A.B., Instructor.

W. S. BALLARD, A.B., Assistant.

### *In Ceramics—*

C. W. ROLFE, M.S., Director.

R. C. PURDY, Instructor.

J. F. KRIEHBIEL, B.S., Instructor.

*In Chemistry—*

S. W. PARR, M.S., Professor.  
H. S. GRINDLEY, Sc.D., Professor.  
E. BARTOW, Ph.D., Associate Professor.  
A. T. LINCOLN, Ph.D., Assistant Professor.  
R. S. CURTISS, Ph.D., Assistant Professor.  
W. M. DEHN, Ph.D., Instructor.  
J. H. WALTON, Ph.D., Instructor.  
T. J. BRYAN, Ph.D., Instructor.  
S. C. CLARK, S.C., Instructor.  
E. WILLIAMS, M.A., Instructor.  
G. MCP. SMITH, Ph.D., Instructor.  
F. K. OVITZ, B.S., Instructor.  
E. O. HEUSE, A.B., B.S., Assistant  
ALICE V. FLATHER, Assistant.  
H. S. WOODS, A.M., Assistant.  
A. L. NEHLS, A.M., Assistant.  
J. R. WITHROW, Ph.D., Assistant.  
W. D. McNALLY, A.B., Assistant.

*In Economics—*

DAVID KINLEY, Ph.D., Professor.  
MAURICE H. ROBINSON, Ph.D., Professor, Industry and Transportation.  
GEORGE M. FISK, Ph.D., Professor, Commerce.  
NATHAN A. WESTON, Ph.D., Assistant Professor.  
ARTHUR S. FIELD, A.M., Instructor.  
BELVA M. HERRON, B.L., Instructor.  
LOUIS H. D. WELD, A.B., Fellow.

*In Education—*

EDWARD G. DEXTER, Ph.D., Professor.  
EDWARD O. SISSON, Ph.D., Assistant Professor.  
FRANK HAMSHER, A.B., Assistant Professor.

*In English Language and Literature—*

DANIEL K. DODGE, Ph.D., Professor.  
EDWARD C. BALDWIN, Ph.D., Assistant Professor.  
HARRY G. PAUL, A.M., Assistant Professor.  
BERTHA M. PILLSBURY, A.M., Instructor.

*In Entomology—*

J. W. FOLSOM, Sc.D., Instructor.  
J. P. GILBERT, A.B., Fellow.

*In Geology—*

C. W. ROLFE, M.S., Professor.  
H. B. FOX, B.S., Instructor.  
J. C. JONES, A.B., Instructor.

*In German—*

GUSTAF KARSTEN, PH.D., Professor.  
GEORGE H. MEYER, A.M., Assistant Professor.  
NEIL C. BROOKS, PH.D., Assistant Professor.  
DAISY L. BLAISDELL, A.M., Instructor.  
CHARLES G. DAVIS, PH.D., Instructor.  
OTTO M. ZORN, PH.D., Instructor.  
JAMES A. CHILES, A.M., LL.B., Instructor.  
KATHERINE A. W. LAYTON, A.B., Assistant.  
TILLIE J. SCHUMACHER, A.B., Assistant.

*In Greek—*

CHARLES M. MOSS, PH.D., Professor.  
KENNETH P. R. NEVILLE, PH.D., Instructor.

*In History—*

EVARTS B. GREENE, PH.D., Professor.  
HENRY L. SCHOOLCRAFT, PH.D., Assistant Professor.  
CLARENCE W. ALVORD, A.B., Instructor.  
OLIVER M. DICKERSON, A.M., Fellow.

*In Household Science—*

ISABEL BEVIER, PH.M., Professor.  
SUSANNAH USHER, S.B., Instructor.  
MYRN BROCKETT, B.L., Instructor.  
ANNA R. VAN METER, A.B., Instructor.  
CHARLOTTE GIBBS, A.B., Assistant.

*In Latin—*

HERBERT J. BARTON, PH.D., Professor.  
KENNETH P. R. NEVILLE, PH.D., Instructor.

*In Mathematics—*

S. W. SHATTUCK, C.E., Professor.  
E. J. TOWNSEND, PH.D., Professor.  
H. L. RIETZ, PH.D., Assistant Professor.  
S. E. SLOCUM, PH.D., Assistant Professor.  
E. L. MILNE, M.S., Instructor.  
H. L. COAR, PH.D., Instructor.  
E. W. PONZER, M.S., Instructor.  
MARION B. WHITE, PH.B., Instructor.  
E. B. LYTLE, A.M., Instructor.  
L. I. NEIKIRK, PH.D., Instructor.  
C. W. EMMONS, A.B., Assistant.  
W. J. RISLEY, B.S., Assistant.  
H. W. REDDICK, A.B., Fellow.

*In Military Science and Tactics—*

E. G. FECHET, Lieut. Col., Professor.

*In Philosophy—*

ARTHUR H. DANIELS, PH.D., Professor.

*In Physical Training—*

G. A. HUFF, Director.

MRS. J. C. LINCOLN, Director.

HARRY GILL, Assistant Director.

LEO G. HANA, Assistant.

EMMA O. POHL, Assistant.

ELIZABETH ATKINSON, Assistant.

*In Physics—*

A. P. CARMAN, SC.D., Professor.

C. T. KNIPP, PH.D., Assistant Professor.

F. R. WATSON, PH.D., Assistant Professor.

W. F. SCHULZ, E.E., Instructor.

A. H. SLUSS, B.S., Instructor.

F. C. BROWN, A.B., Instructor.

C. S. HUDSON, M.S., Instructor.

*In Physiology—*

G. T. KEMP, M.D. PH.D., Professor.

W. A. CLARK, A.B., Instructor.

*In Political Science—*

JAMES W. GARNER, PH.D., Assistant Professor.

*In Psychology—*

STEPHEN S. COLVIN, PH.D., Associate Professor.

*In Rhetoric—*

THOMAS A. CLARK, B.L., Professor.

EDWARD FULTON, PH.D., Associate Professor.

MARTHA J. KYLE, A.M., Instructor.

FRANK W. SCOTT, A.M., Instructor.

JOHN Q. ADAMS, B.L., LL.B., Instructor in Public Speaking.

THATCHER H. GUILD, A.M., Instructor.

FLORENCE E. PITTS, A.B., Instructor.

ARTHUR L. ENO, A.M., Instructor.

FRED G. FOX, A.M., Instructor.

HELEN E. BULLARD, A.B., Assistant.

RUTH B. TAYLOR, A.B., Assistant.

*In Romanic Languages—*

THOMAS E. OLIVER, PH.D., Professor.

DAVID H. CARNAHAN, PH.D., Assistant Professor.

FLORENCE N. JONES, PH.D., Instructor.

THEODORE E. HAMILTON, A.M., Instructor.

*In Zoölogy—*

S. A. FORBES, PH.D., Professor.

F. SMITH, A.M., Assistant Professor.

A. W. PETERS, PH.D., Instructor.

F. W. CARPENTER, PH.D., Instructor.

## THE COLLEGE OF LITERATURE AND ARTS

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The College of Literature and Arts includes those branches usually comprised in the department of liberal arts, with the exception of the natural sciences. The aim of the College is to furnish a liberal education, based on the humanities, and to afford opportunity for specialization in art, literature and language, history, economics, mathematics, philosophy, psychology, pedagogy, political science and administration.

### ADMISSION

1. Applicants for admission to the freshman class in the College of Literature and Arts must be at least sixteen years of age.

2. Entrance may be made at any time provided the candidate is competent to take up the work of the classes then in progress; but it is better to begin upon the first collegiate day in September.

3. Admission to the freshman class of the College may be obtained in one of three ways: (a) by certificate from a fully accredited high school, a list of which schools is given on page 60ff.; (b) by examination; (c) by transfer of credits from some other college or university.

### ADMISSION BY CERTIFICATE FROM ACCREDITED HIGH SCHOOLS

A certificate from a fully accredited high school will admit the owner to the freshman class, if it is for the full

course. The list of these schools is given on pages 59ff.

4. In all subjects required for admission to the University, other than those for which his school is accredited, the candidate for admission must pass an examination or take the work in the Academy of the University.

5. Candidates for admission from accredited schools must file with the Registrar, upon entrance, a certificate of graduation and a certified list of the preparatory studies for which they received credit in the high school. Blanks for these certificates should be obtained from the Registrar in advance and forwarded to him for approval before registration days.

#### ADMISSION BY EXAMINATION

6. Examinations of candidates for admission to the University are held at the University in September (see program, p. 84). Each candidate must be in attendance during the whole period of examinations.

7. The scholarship examinations<sup>1</sup>, held each year on the first Saturday in June, in the several counties of the state, afford an opportunity to pass a part of the entrance examinations before coming to the University.

The subjects upon which the entrance examinations are held are described below.

In all cases, 14 units of high school work are required. A unit of high school work is the amount represented by the pursuit of one high school subject, with five recitations a week of at least forty minutes each, through 36 weeks, or one high school year; or, in other words, the work of 180 recitation periods of forty minutes each, or the equivalent in laboratory, or other, practice.

Of the 14 units required, the following are prescribed and no substitutes are accepted, for admission to the freshman class in the College of Literature and Arts.

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<sup>1</sup>See Scholarships, pp. 340ff.

|                                     |          |
|-------------------------------------|----------|
| Algebra .....                       | 1½ units |
| English Composition .....           | 1 unit   |
| English Literature .....            | 2 units  |
| Geometry, plane .....               | 1 unit   |
| History <sup>1</sup> .....          | 1 unit   |
| Foreign Language <sup>2</sup> ..... | 3 units  |

The remainder of the 14 units must be made up from the elective subjects listed below, in the amounts indicated. No subject will be accepted if it is offered in an amount less than the minimum indicated in the table.

|                                     |              |
|-------------------------------------|--------------|
| Astronomy .....                     | ½ unit       |
| Botany .....                        | ½ to 1 unit  |
| Chemistry .....                     | ½ to 1 unit  |
| Civics .....                        | ½ to 1 unit  |
| Commercial Geography .....          | ½ unit       |
| Drawing .....                       | ½ to 1 unit  |
| English Literature .....            | 1 unit       |
| French .....                        | 1 to 3 units |
| Geology .....                       | ½ to 1 unit  |
| Geometry, Solid and Spherical ..... | ½ unit       |
| German .....                        | 1 to 4 units |
| Greek .....                         | 1 to 3 units |
| History .....                       | 1 to 3 units |
| Latin .....                         | 1 to 4 units |
| Physics .....                       | 1 unit       |
| Physical Geography .....            | ½ to 1 unit  |
| Physiology .....                    | ½ to 1 unit  |
| Zoölogy .....                       | ½ to 1 unit  |

For a description of the amount of work expected to satisfy the requirement of the number of units indicated opposite each subject in the above list, see the following pages:

### DESCRIPTION OF SUBJECTS ACCEPTED FOR ADMISSION

The amount of work in each subject which, in the judgment of the University authorities, corresponds to

<sup>1</sup>See page 81, paragraph 15.

<sup>2</sup>At least two of these must be in the same language. All three must be in Latin if the student wishes to pursue the study of that subject in the University.

the minimum number of credits assigned is shown by the description of subjects below :

1. ALGEBRA.—Fundamental operations, factoring, fractions, simple equations, involution, evolution, radicals, quadratic equations and equations reducible to the quadratic form, surds, theory of exponents, and the analysis and solution of problems involving these.

2. ASTRONOMY.—To obtain credit for one unit of work for entrance in astronomy, the student must have had as much of the subject as is contained in any good text. For one unit, the entrance requirement implies, in addition to the above, some degree of practical familiarity with the geography of the heavens, with the various celestial motions, and with the positions of some of the more conspicuous naked-eye heavenly bodies.

3. BOTANY.—A familiar acquaintance is required with the general structure of plants, and of the principal organs and their functions, derived to a considerable extent from a study of the objects; also a general knowledge of the main group of plants, and the ability to classify and name the more common species. Laboratory notebooks and herbarium collections should be presented.

4. CHEMISTRY.—The instruction must include both text-book and laboratory work. The work should be so arranged that at least one-half of the time shall be given to the laboratory. The course, as it is given in the best high schools in one semester or one year, respectively, will satisfy the requirements of the University for the one-half unit or the two units for admission. The laboratory notes, bearing the teacher's indorsement, must be presented in evidence of the actual laboratory work accomplished. Candidates for admission may be required to demonstrate their ability by laboratory tests.

5. CIVICS.—Such amount of study on the United States constitution, its history and interpretation, as is indicated by any of the usual high-school text-books on civil government, is regarded as sufficient for one term. The work may advantageously be combined with the elements of political economy.

6. COMMERCIAL GEOGRAPHY.—The amount and character of the work accepted in this subject is indicated by the scope of such books as Redway's Commercial Geography, Adonis' smaller book on the same subject, the text-book of Gannett, Garrison and Houston, or Trotter's work.

7. DRAWING.—Free-hand or mechanical drawing, or both. Drawing-books or plates must be submitted. The number of credits allowed depends on the quantity and quality of the work submitted.

8. ENGLISH COMPOSITION AND RHETORIC.—Correct spelling, capitalization, punctuation, paragraphing, idiom, and definition; the elements of rhetoric. The candidate will be required to write two paragraphs of about one hundred and fifty words each to test his ability to use the English language. This work counts for one unit.

9. ENGLISH LITERATURE.—(a) Each candidate is expected to have read certain assigned literary masterpieces, and will be subjected to such an examination as will determine whether or not he has done so. The books assigned for the next three years are as follows:

The Sir Roger de Coverley Papers; Coleridge's Ancient Mariner; George Eliot's Silas Marner; Lowell's Vision of Sir Launfal; Scott's Ivanhoe; Scott's Lady of the Lake; Shakspeare's Merchant of Venice; Shakspeare's Macbeth; Tennyson's Gareth and Lynette, Lancelot and Elaine; The Passing of Arthur; Irving's Life of Goldsmith.

(b) In addition to the above the candidate will be required to present a careful, systematic, study, with supplementary reading, of the history of either English or American Literature.

(c) The candidate will be examined on the form and substance of certain books in addition to those named under (a). For 1906, 1907 and 1908 the books will be selected from the list below. The examination will be of such a character as to require a minute study of each of the works named, in order to pass it successfully. The list is:

Shakspeare's Julius Cæsar; Milton's L'Allegro, Il Penseroso, Comus, and Lycidas; Burke's Speech on Conciliation with the Colonies; Macaulay's Essays on Addison and Johnson.

The work outlined in (a) (b) (c) counts for two units.

(d) The three units in English composition, rhetoric and literature, as described above, are required of all students. A fourth unit may be obtained for one full year's additional work in the study of English and American authors.

10. FRENCH.—*One year's work.*—The candidate must have a thorough knowledge of elementary grammar and the irregular verbs; must be able to pronounce correctly, and to translate simple spoken French phrases. He must have read some 300 pages of easy prose,

including one modern comedy, and must be able to translate ordinary French prose at sight.

*Two years' work.*—In addition to the above, the candidate must show proficiency in advanced grammar, the essentials of syntax, and elementary composition. The reading of not less than 400 pages of standard authors, including two plays of Molière, is required.

*Three years' work.*—In addition to what has already been described, the candidate must have had further work in composition. He must further have read not less than 500 pages of standard authors, including Molière, La Fontaine, and Hugo. Some acquaintance with modern lyrics is necessary.

II. GEOLOGY.—To secure one-half unit, the student must show familiarity with the principles of dynamic and structural geology, and some acquaintance with the facts of historical geology as presented in Scott's Introduction to Geology, Brigham's Text-book of Geology, or an equivalent, together with at least an equal amount of time spent in laboratory and field work.

The laboratory work should follow one or more of the lines indicated below, and note books should be presented showing the character and amount of work done.

a. Studies of natural phenomena occurring in the neighborhood, which illustrate the principles of dynamic geology. Each study should include a careful drawing of the object, and a written description of the way in which it was produced.

b. Studies of well-marked types of crystalline, metamorphic and sedimentary rocks, which will enable the student to recognize each type and state clearly the conditions under which it was formed.

c. Studies of minerals of economic value, including the characteristics of each, its origin, and the uses to which it is put.

d. Studies of the types of soil occurring in the neighborhood, including the origin of each and the cause of differences in appearance and fertility.

12. GEOMETRY.—(a) *Plane Geometry*. Special emphasis is placed on the ability to use propositions in the solution of original numerical exercises and of supplementary theorems.

(b) *Solid and Spherical Geometry*. Applications to the solutions of original exercises are emphasized.

13. GERMAN.—*One year's work.*—Elementary grammar. Besides the work in grammar, the student should read not less than 150 pages of easy narrative, or descriptive prose.

*Two years' work.*—In addition to the work outlined under the one year's requirement, the pupil should know the syntax of cases, uses of the subjunctive and infinitive, complex sentence structure, uses of modal auxiliaries and of participial constructions. As an additional reading requirement, from 250 to 300 pages should be translated. Prose composition.

*Three years' work.*—The third year's study should aim to secure an easy reading knowledge of the language. Standard prose of the grade represented by Freytag, Dahn or Keller, not less than 100 pages, should be read, together with selections from the easier classic dramas. Schiller's *Wilhelm Tell*, or *Jungfrau von Orleans*.

14. GREEK.—To obtain one unit, the exercises in any of the beginning books, and one book of the *Anabasis*, or its equivalent, must be offered. For two units, two books of the *Anabasis* and three of Homer, or their equivalents, additional to the above, must be presented, together with an amount of Greek prose composition equal to one exercise a week for one year.

15. HISTORY.—No subjects are definitely prescribed in this department, but the following are recommended as best adapted to the high school program:

a. For a course of one year only, the history of England and of the United States.

b. For a course of two years, the following subjects, or any two of them: The History of Greece and Rome, the History of England, the History of the United States.

c. For a course of three years, one year in each of the three subjects named in (2).

*Elementary* examinations will be offered in the following subjects: (a) The History of England and the United States, (b) the History of Greece and Rome, (c) General European History. *Advanced* examinations may also be taken in any one of the subjects above named, which has not been offered to meet the elementary requirements. The examination in each of these subjects is intended to cover one full year of high school work.

The statement of requirements in each subject implies the use of a substantial text-book, some elementary training in the use of reference books, and some instruction in historical geography.

16. LATIN.—*First year's work.*—Such knowledge of inflections and syntax as is given in any good preparatory Latin book, together with the ability to read simple fables and stories.

*Second year's work.*—Four books of Cæsar's Gallic War, or its equivalent in Latin of equal difficulty. The ability to write simple Latin based on the text.

*Third year's work.*—Six orations of Cicero. The ability to write simple Latin based on the text. The simpler historical references and the fundamental facts of Latin syntax.

*Fourth year's work.*—The scansion of hexameter verse, six books of Vergil, with history and mythology.

17. PHYSICS.—One year's high school work covering the elements of physical science as presented in the best of the current high school text-books of physics. Laboratory practice in elementary quantitative experiments should accompany the text-book work. The candidate's laboratory note-book will be considered as part of the examination.

18. PHYSICAL GEOGRAPHY.—The amount and character of the work required may be seen by referring to the texts of Gilbert and Brigham, or Davis; the recitations must be supplemented by at least an equal amount of time devoted to laboratory work. The laboratory exercises should follow one or more lines such as are indicated below. Each student should present a note-book showing what he has done.

a. Studies in mathematical geography in which map and scale only are used. These should embrace such topics as length of a degree in longitude in various latitudes; length and breadth of continents, etc., in degrees and miles; relative latitude of places; distances between cities, etc., in degrees and miles; difference in length of parallels and meridians; problems in time; location of time belts, etc.

b. Studies of local topographic features which illustrate the various phases of stream work. Each study should include a drawing or topographic map of the object and a full, clear description of the way in which it was formed.

c. Studies of glacial deposits as shown in terminal and ground moraines, kames, eskers, etc.; distribution of dark and light colored soils; occurrence of lakes, ponds, gravel beds, clay banks, and water-bearing strips of sand and gravel.

d. Studies of stream work as shown on the topographical sheets which may be obtained from the United States Geological Survey at nominal cost.

e. Studies of the form, size, direction and rate of movement of high and low barometer areas, and the relation of these to direction of wind, character of cloud, distribution of heat, and amount of moisture in the air, as shown in the daily weather maps. Later these studies should lead to the making of weather maps from the data furnished by the daily papers, and to local prediction of weather changes based on the student's own observations.

f. Studies of the climate of various countries compared with our own, the necessary data being derived from such topographic, rainfall, wind, current, and temperature maps as are found in Sydow-Wagner's or Longman's atlases.

19. PHYSIOLOGY.—For one-half unit are required the anatomy, histology, and physiology of the human body and the essentials of hygiene, taught with the aid of charts and models to the extent given in Martin's Human Body (Briefer Course). For more than one-half unit, the course must include practical laboratory work. The number of units, beyond one-half, will be determined in each case according to the quantity and quality of the work.

20. ZOÖLOGY.—The instruction must include laboratory work equivalent to four periods a week for a half year, besides the time required for text-book and recitation work. Note-books and drawings must be presented to show the character of work done and the types of animals studied. The drawings are to be made from the objects themselves and not copied from illustrations, and the notes are to be a record of the student's own observation on the animals examined. The amount of equipment and character of surroundings must, of course, determine the nature of the work done and the kind of animals studied, but in any case the student should have at least a fairly accurate knowledge of the external anatomy of each of eight or ten animals distributed among several of the larger divisions of the animal kingdom, and should know something of their life histories and of their more obvious adaptations to environment. It is recommended that special attention be given to such facts as can be gained from a careful study of the living animal. The names of the largest divisions of the animal kingdom with their most important distinguishing characters and illustrative examples, selected, when practicable from familiar forms, ought also to be known.

<sup>1</sup>PROGRAM OF EXAMINATIONS, SEPTEMBER 12-15, 1906.

All persons who wish to enter the University in September, 1906, except those holding certificates of graduation from accredited schools and scholarship certificates, and those for whom a transfer of all entrance credits from some other college or university has already been approved, must present themselves at the Registrar's office, Library Building, at 9 o'clock a. m., Wednesday, September 12th. At that time application for admission will be received, and applicants will be given all necessary directions as to examinations.

The program of examinations is as follows:

|   |           |             |
|---|-----------|-------------|
| Chemistry, $\frac{1}{2}$ or 1 unit.....               | Wednesday | 9:00 a. m.  |
| Geology, $\frac{1}{2}$ or 1 unit.....                 | Wednesday | 9:00 a. m.  |
| Astronomy, $\frac{1}{2}$ or 1 unit.....               | Wednesday | 11:00 a. m. |
| History, 1 or 2 units.....                            | Wednesday | 1:00 p. m.  |
| Physical Geography, $\frac{1}{2}$ or 1 unit.....      | Wednesday | 3:30 p. m.  |
| English Literature, 2 units.....                      | Thursday  | 8:00 a. m.  |
| English Composition, 1 unit.....                      | Thursday  | 10:30 a. m. |
| Latin, 1 or 2 units.....                              | Thursday  | 1:00 p. m.  |
| Physics, 1 unit .....                                 | Thursday  | 3:30 p. m.  |
| Algebra, $1\frac{1}{2}$ units .....                   | Friday    | 8:00 a. m.  |
| Civics, $\frac{1}{2}$ to 1 unit.....                  | Friday    | 10:30 a. m. |
| Geometry, Plane, 1 unit .....                         | Friday    | 1:00 p. m.  |
| Geometry, Solid and Spherical, $\frac{1}{2}$ unit.... | Friday    | 2:45 p. m.  |
| Physiology, $\frac{1}{2}$ to 1 unit.....              | Friday    | 3:30 p. m.  |
| German, 1 or 2 units.....                             | Saturday  | 8:00 a. m.  |
| French, 1 or 2 units.....                             | Saturday  | 8:00 a. m.  |
| German, 1 to 3 units.....                             | Saturday  | 10:30 a. m. |
| French, 1 to 3 units.....                             | Saturday  | 10:30 a. m. |
| Commercial Geography, $\frac{1}{2}$ unit.....         | Saturday  | 10:30 a. m. |
| Latin, 1 to 4 units.....                              | Saturday  | 1:00 p. m.  |
| Botany, $\frac{1}{2}$ to 1 unit.....                  | Saturday  | 1:00 p. m.  |
| Zoölogy, $\frac{1}{2}$ to 1 unit.....                 | Saturday  | 3:30 p. m.  |

The time for examination in free hand drawing and in manual training will be arranged with candidates.

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<sup>1</sup>The examinations in 1907 will be held September 11-14.

## ADMISSION BY TRANSFER FROM OTHER COLLEGES AND UNIVERSITIES

A person who has entered another college or university of recognized standing will be admitted to this University upon presenting a certificate of honorable dismissal from the institution from which he comes and an official statement of the subjects upon which he was admitted to such institution provided it appears that the subjects are those required here for admission by examination, or real equivalents. To enter the University in this way, candidates should submit such papers to the Registrar before the time of entrance, so that all doubtful points may be cleared up in advance.

## ADMISSION AS SPECIAL STUDENTS

Persons over twenty-one years of age, not candidates for a degree, may be admitted to classes, after satisfying the President, and the professor in charge of the department in which such classes are taught, that they possess the requisite information and ability to pursue profitably, as special students, the chosen subjects. Such students are not matriculated; they pay a tuition fee of seven dollars and a half a semester, in addition to the regular incidental fee of twelve dollars.

After successfully completing thirty semester hours of university work, a special student may receive such credits toward matriculation on account of practical experience in the line of his course as the head of the department and the dean of the college may recommend, and the President of the University may approve.

## ADMISSION TO ADVANCED STANDING

After satisfying the entrance requirements for admission to the University, in some of the ways described, and after matriculating, the applicant for advanced standing may secure such standing either by examination or by

transfer of credits from some other college or university.

1. *By Examination*.—Candidates for advanced standing, not from other colleges or universities, may secure such standing on examination. In the case of freshman students seeking advanced standing on the basis of their preparatory work, such standing shall be granted after satisfactory examination only, unless the applicants are from fully accredited schools. In that case a transfer of credits may be made as provided below.

2. *By Transfer of Credits*.—Credits from other colleges or universities may be accepted by the faculty for advanced standing; but at least one year's work in residence at the University is required of all candidates for a bachelor's degree.

In all cases a certificate of honorable dismissal is required, together with a certified record of work done in the institution from which the applicant comes. These should be presented for approval some time before the student enters for work.

Upon approval of the faculty, freshmen may receive a limited amount of credit for advanced work done in fully accredited high schools.

## REGISTRATION

At the beginning of the first semester each student must present himself for registration within the time set for that purpose, before the formation of classes, and he must be present at the first exercise of each class he is to attend.

## REQUIREMENTS FOR GRADUATION

The only degree given on graduation from this college is A.B.

In order to graduate from the University in the College of Literature and Arts, the student must secure credit for 130 hours of study, including therein the prescribed

military and physical training. Every student must take work aggregating at least eight hours of credit in each of the following groups of subjects, according to the conditions described below. The groups are:

I. English language and literature, including English and rhetoric.

II. Ancient and modern languages and literatures, including Greek, Latin, German, and Romanic languages.

✓ III. Political science, including history, economics, and science of government.

IV. Mathematics and philosophy, including mathematics, education, philosophy and psychology.

✓ V. Science, including astronomy, botany, chemistry, geology, physiology, physics, and zoölogy.

*Conditions under which students must make their choice:*

1. In his freshman year each student must select his course of study from at least three of the five groups mentioned above, and must include in his choice six hours<sup>1</sup> of rhetoric (rhetoric I).

2. In Group II. the student is required to carry the language which he elects through at least the first university year of work. No credit is given for a part of the work of the first university year of any language.

3. In Group IV. a student who elects mathematics must take at least five hours of it, and is earnestly advised to take the subject through the year. If a student does not elect mathematics, his election in this group must include work in at least two of the other departments of the group. That is, if he does not take mathematics, he must take either philosophy and psychology, or philosophy and education, or education and psychology. With the exception of mathematics, no subject of this group is open to freshmen.

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<sup>1</sup>For definition of "hour," see page 298.

4. No credit is granted in any subject unless the student pursues it for the full time required in the shortest course offered in that subject. For example, if the student elects a course which yields two hours of credit for one semester, he must stay in the class during the semester in order to get any credit at all.

5. Every student must secure at least 24 hours of credit in some one department to be selected by him from the list of major subjects (see page 90). This subject shall be called his major.

6. Not more than 40 hours in any one department may be counted for graduation, excepting when the student is writing a thesis. In this case he may count, in addition to the 40 hours, the hours of the seminar course in which he does his thesis work.

7. According to the general University regulations, theses must be written by students who are candidates for special honors. Students not candidates for special honors may also write theses, on the approval of the head of the department in which they are doing their major work.

8. Students who hold *scholarships in household science* must make this subject their major. They must elect each semester at least four hours in household science, or in subjects required for admission to the household science courses. In their freshman year, household science students must elect household science 2 (Home Architecture and Sanitation), household science 1, (Selection and Preparation of Food), Chemistry 1 and 3b. They must then elect in regular course and finish by the end of the junior year, botany 5, chemistry 4, 5a or 13, and 5c, and an additional five hours in botany or zoölogy. In order to graduate, household science students must also secure credit for art and design 1, 16 (Theory of Color), 19 (History of Art), architecture 29 (History or Architecture), and economics 1 and 16B.

They must also satisfy the requirements for gradua-

tion in the College of Literature and Arts, in so far as these are not covered by the courses above mentioned.

### ELECTIVES

A student may select his studies from as wide a range of subjects as he pleases, restricted only by the requirement that he shall take a minimum amount of work in each of the groups above mentioned, and secure 24 hours in some one.

The departments in which major work may be done are listed as major electives on page 90. If the student receives less than 24 hours' credit in one of these subjects, it is credited to him as minor work, as is also any subject not there listed, regardless of the time spent on it.

The elective minor courses open to the students of the College include subjects offered in the other colleges and schools of the University. The Sciences are not an integral part of the work of the College of Literature and Arts, but they are so important a part of a liberal education that every student of the College is earnestly urged to extend his study of them as far as may be. Certain courses in the College of Engineering, in the College of Agriculture, in the School of Library Science, and in the College of Law, may also be counted for credit in the College of Literature and Arts. These are more particularly mentioned under "minor electives," below.

Students in the business courses must choose their majors in economics. They must supplement the economics with the necessary work in science, materials of commerce, mechanical technology, language and law, and should follow closely the outlines of the various courses given in full in the special circular on *Courses of Training for Business*.

### MAJOR ELECTIVES

Following are the subjects which may be elected as

majors. Minor work may be elected from those not chosen as majors:

|                    |                    |
|--------------------|--------------------|
| Economics.         | Latin.             |
| Education.         | Library Science.   |
| English.           | Mathematics.       |
| French.            | Philosophy.        |
| German.            | Political Science. |
| Greek.             | Psychology.        |
| History.           | Rhetoric.          |
| Household Science. |                    |

### MINOR ELECTIVES

The credits necessary for graduation, additional to those obtained in the prescribed subjects and the chosen major electives, may be secured from any subjects offered in the University whose election is approved by the Dean of the college. Among the subjects which may be thus chosen are several offered in the College of Literature and Arts. These are as follows:

*Art and Design*.<sup>1</sup> Of this subject 20 hours, but no more, may be counted for the degree of bachelor of arts. The work of this department is so important for culture that every student should elect some of it.

*Comparative Literature and Philology*. See p. 246.

*Italian and Spanish*. See pp. 287, 332.

The following subjects in other colleges and schools of the University may also be taken as minors:

*Architecture*: Domestic Architecture (Arch. 27), and History of Architecture (Arch 29).

*Law*: The following subjects in the College of Law are open to students in the College of Literature and Arts without fee: Constitutional Law (Law 22), Municipal Corporations (Law 24).

*Library Science*.<sup>2</sup> Elementary Reference (Lib. 2); Selection of Books (Lib. 3); History of Libraries (Lib. 7); Bibliography (Lib. 6); Advanced Reference (Lib. 8); Public Documents (Lib. 13); Book-Making (Lib. 9); Library Seminar (Lib. 14).

*Music*: History of Music (Mus. 1); Orchestra (Mus. 21); Choral Society (Mus. 22).

<sup>1</sup>Special students may elect any amount of the subject.

<sup>2</sup>No library science, except course 12, may be elected before senior year.

Any other course offered in the University may be taken, subject to the approval of the Dean and the professors concerned.

## COURSE OF INSTRUCTION

## FIRST YEAR

Fifteen to eighteen hours a week, including military and physical training, must be chosen each semester.

Military science and tactics are required of all male students. Drill extends through the freshman and sophomore years, and tactics through the second semester of the freshman year.

Physical training is required of all freshmen, men and women, two hours for men and three hours for women.

The following subjects are open to freshmen:

*First Semester—*

*Art and Design* 1.

*English Literature and Rhetoric:* English 1; Rhetoric 1, 7.

*Foreign Language:* French 1; German 1; Greek 1 (for those who have not before studied Greek); Greek 5 (for those offering entrance units in Greek); Italian 1; Latin 1 (for those offering 3 units for entrance); Latin 2 (for those offering 4 units for entrance); Spanish 1.

*History and Political Science:* History 1 and 11; Economics 7 and 26.

*Mathematics* 1 and 3, or 2 and 4.

*Science:* Astronomy 1; Botany 11; Chemistry 1; Entomology 1; Geology 3; Physical Geography (Geology 8); Zoölogy 10 and 1a.

*Military* 2.

*Physical Training* 1 and 3 for men; 7 and 9 (Physiol. 6) for women.

*Second Semester—*

*Art and Design* 1, 2.

*English Literature and Rhetoric:* English 23 and 27; Rhetoric 1, 7, 11, 15.

*Foreign Language:* French 1; German 3; Greek 2; (after Greek 1); Greek 6 (after Greek 5); Italian 1; Latin 1 and 3; Spanish 1.

*History and Political Science:* History 1 and 2; Economics 22 and 26.

*Mathematics* 6.

*Science:* Astronomy 4; Chemistry 3a, 3b, and 4; Entomology 1; Geology 3; Physical Geography (Geol. 8); Zoölogy 10.

*Military* 1 and 2.

*Physical Training:* 1 and 3 for men; 7 for women.

The work of the remaining years is elective, but the elections must include the necessary number of hours from each group as specified on page 87.

### TRAINING FOR BUSINESS

Courses in economics, commerce, and industry are offered in combination with courses in language, law, science, and mechanical technology, with the aim of providing a university training for business life. The combined courses are designed to give the student a knowledge of the general principles that underlie all lines of business, with special training in the work of some particular calling.

### ARRANGEMENT OF COURSES

The subjects of study are so arranged as to furnish training for (1) general business, (2) commerce and the consular service, (3) banking, (4) transportation, (5) insurance, (6) municipal administration, (7) journalistic work.

The work of the class-room is supplemented with lectures by practical specialists, and with visits of inspection to industrial and mercantile establishments.

The outline of the General Business Course and that of the course in Banking is given below. *A detailed description of the other courses, together with a full account of the library and other facilities for the work is given in a special circular, which may be had on application to the Registrar.*

GENERAL BUSINESS COURSE

*First Year*

1. Commercial Geography (Econ. 26); English Economic History (Econ. 7); French, German, Spanish or Italian; Military; Physical Geography (Geol. 8); Physical Training; Rhetoric (Rhet. 1).

2. Commercial Geography (Econ. 26); Economic History of the United States (Econ. 22); French, German, Spanish or Italian; Military; Physical Geography (Geol. 8); Physical Training; Rhetoric (Rhet. 1).

*Second Year*

1. Business Writing (Rhet. 10); Foreign Language continued; Drawing, Mechanical (G. E. D. 1); Principles of Economics (Econ. 1); American Government (Pol. Sci. 1); Electives; Military.

2. Business Writing (Rhet. 10); Foreign Language continued; Money and Banking (Econ. 3); Public Finance (Econ. 5); Electives; Military.

*Third Year*

1. Corporation Management and Finance (Econ. 10); Domestic Commerce and Commercial Politics (Econ. 28) or History of Commerce (Econ. 27); Foreign Language continued; Financial History of the United States (Econ. 4); Materials of Commerce;<sup>1</sup> Electives.<sup>2</sup>

2. Accounting (Econ. 34); Foreign Commerce and Commercial politics (Econ. 29) or History of the Commercial Policy of the United States (Econ. 30); Foreign Language continued; Industrial Consolidation (Econ. 11); Electives.<sup>2</sup>

*Fourth Year*

1. Commercial Law (Law B); Domestic and Commercial Politics (Econ. 28) or History of Commerce (Econ. 27); Labor Problem (Econ. 12); Seminary and Thesis; Electives.<sup>2</sup>

2. Commercial Law (Law B); Foreign Commerce and Commercial Politics (Econ. 29) or History of the Commercial Policy of the United States (Econ. 30); Generation and Transmission of Power (M. E. 31) or Machinery and Manufacturing (M. E. 30); Seminary and Thesis; Electives.<sup>2</sup>

<sup>1</sup>The science previously elected must have been such as to prepare for the work in Materials of Commerce which the student needs for his purposes.

<sup>2</sup>Students who have not taken eight hours of mathematics must elect philosophy and psychology in their junior or senior years.

## COURSE IN BANKING

*First and Second Years*

The work is the same as in the General Business Course.

*Third Year*

1. Corporation Management and Finance (Econ. 10); English Literature or Foreign Language continued; Financial History of the United States (Econ. 4); History of Commerce, or Domestic Commerce (Econ. 27 or 28); Practical Banking (Econ. 9); Electives.<sup>1</sup>

2. Accounting (Econ. 34); Foreign Commerce, or Commercial Policy of the United States (Econ. 29 or 30); Industrial Consolidations (Econ. 11); The Money Market (Econ. 8); Electives.<sup>1</sup>

*Fourth Year*

1. Commercial Law (Law B); Domestic Commerce and Commercial Politics, or History of Commerce (Econ. 28 or 27), Seminary and Thesis in Banking; Electives.<sup>1</sup>

2. Commercial Law (Law B); Foreign Commerce and Commercial Politics or History of the Commercial Policy of the United States (Econ. 30 or 29); Seminary and thesis in Banking; Statistics (Econ. 23, 24); Electives.<sup>1</sup>

## LEGAL STUDY AND COLLEGE WORK

By the proper selection of his studies it is possible for a prospective law student to take both his degree in arts and his degree in law in six years. A student who intends to do this should first do all the work prescribed for candidates for the degree of A.B. (see pp. 86ff.); he should then take studies sufficient to leave him not more than fifteen hours' credit to make in the senior year of his college course. The student during this year should enroll in the College of Law and take the first year's work there. Of this work ten hours, but no more, may be counted in the College of Literature and Arts. These ten hours must be in contracts and real property.

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<sup>1</sup>Students who have not taken eight hours in mathematics must elect philosophy and psychology in junior or senior year.

*Students are not permitted to take this law work for credit toward the arts' degree until their senior year.*

A fee of five dollars is charged for every law subject, except courses 22 and 24, page 290, taken by students who do not pay the regular law school fee.

### SPECIAL STUDENTS OF ART AND DESIGN

No student of art, upon entering a course of professional study, is able to determine the line in which he will later specialize. Accordingly, students of art, upon entering the University, are required to follow a course introducing them to the principles and practice of the four closely allied branches of art—drawing, painting, modeling, and design—and are required to register for the following courses: First semester, courses 1, 3, 16. Second semester, courses 2, (section C), 3, 12, 16. (See pp. 225ff.)

The above course may be followed by two years devoted to painting, modeling, or design, as the student may elect.

### LIBRARY SCIENCE

Students who may wish to do so may take the degree of bachelor of arts in library science by devoting their senior year to the first year of work in the Library School. Students who wish to graduate in this way must fulfill the literary requirements for graduation as set forth on page 86, and must in their senior year take library science 1, 2, 3, 4, 7 and 14.

### COLLEGE OF SCIENCE

The College of Science includes the various departments of natural, physical, and mathematical science. It provides a liberal education with science as a leading element, and it affords an opportunity for specialization in the mathematical, physical, chemical, and biological sciences, and in astronomy, geology, and household science.

DEGREES

The usual degree given for work in this College is that of bachelor of arts, but the degree of bachelor of science may be given on recommendation of the head of the department in which the principal major work has been done, and approval of the Faculty of the College.

ADMISSION

Applicants for admission to the freshman class in the College of Science must be at least sixteen years of age.

As in the case of the other Colleges, admission may be by certificate from a fully accredited high school; or by examination; or by transfer of credits from some other college or university.

The conditions for admission from an accredited high school are described on page 75. The subjects which the accredited high school certificate must cover, or which the student must take by examination if he does not come from an accredited high school are described below :

ADMISSION BY EXAMINATION

For the times of examination see page—

In all cases 14 units<sup>1</sup> of high school work are required. Of these 14 units the following subjects are prescribed in the amounts indicated and no substitutes are accepted :

|                           |           |
|---------------------------|-----------|
| Algebra .....             | 1 ½ units |
| English Composition ..... | 1 unit    |
| English Literature .....  | 2 units   |
| Geometry, Plane .....     | 1 unit    |
| Science .....             | 2 units   |

The remainder of the 14 units required for admission must be made up from the elective subjects listed on page 77 and described on page 83. No subject will be accepted if it is offered in an amount less than the minimum indicated in that table.

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<sup>1</sup>See page 76.

Students who enter for the course in *ceramics* must offer two units of German among their elective subjects.

#### ADMISSION BY TRANSFER OF CREDITS, TO ADVANCED STANDING, AND AS SPECIAL STUDENTS

For the conditions of admission by transfer from other colleges and universities, admission as special students, and admission to advanced standing, and registration, see pages 85-6.)

#### REQUIREMENTS FOR GRADUATION

The offerings of this College are combined in various courses, making somewhat different graduation requirements. A student may graduate from a general course in science, with a wide latitude in choice of electives, or from one of the more special courses provided in chemistry, in chemical engineering, in household science, in mathematics, in physics, and in the studies preliminary to medicine.

The subjects offered in each course are divided into three groups; prescribed, major electives, and general electives. The prescribed subjects are required of all students unconditionally. The major electives form a considerable list of courses in the subjects most characteristic of the work of the College, from which the student must choose a minimum number of hours' work. The general electives comprise all other courses offered in the University which the students of this College are qualified to take.

#### GENERAL CLASSIFICATION OF SUBJECTS

##### GENERAL PRESCRIBED LIST

Chemistry I,<sup>1</sup> 3b, 4; 10 hours; or I, 2, 3a, 5a, 9, 9a, or 9c, 3I, 33a; 28 hours.

German I, 3, 4, 5 or 6, or French I, 2; 16 hours<sup>2</sup>.

<sup>1</sup>Students who offer the equivalent of chemistry I for admission must arrange for a substitute.

<sup>2</sup>Students having entrance credit for two years of high school German may satisfy the above requirements with eight semester hours each of German and French. Those not receiving two years credit in foreign language must take one year's University work in English or economics. Botany 13 and Zoology 14 (German readings) will be accepted instead of German 6.

Mathematics 3 or 4; 2 or 3 hours.

Military Science 1, 2; 5 hours.

Physical Training—

Men, 1, 3; 2 hours.

Women, 7, 9; 3 hours.

Rhetoric 1; 6 hours.

#### MAJOR ELECTIVES

Astronomy 3, 6, 7, 9, 10, 14, 15.

Botany 1 to 5, 7, 9, 10.

Chemistry<sup>3</sup> 2, 3, 5 to 15, 17 to 19, 21, 23 to 36, 41, 42, 61, 65, 69, 90, 91.

Entomology 2, 3, 5, 6.

Geology 1, 2, 4 to 7, 9.

Household Science 1 to 5.

Mathematics 1 or 2, 3 or 4, 6, 8a, 8b, 10 to 26.

Physics 1a, 2 to 10.

Physical Geography (Geology 8, 10).

Physiology 1 to 3, 5.

Psychology 1 to 9.

Zoölogy 1<sup>4</sup> to 4, 8, 12 to 17.

#### GENERAL ELECTIVES

The subjects which may be taken as general electives include not only the branches taught by the departments of this college, but those offered by the other colleges and schools of the University. Courses in history, economics, languages, literature, and philosophy, taught in the College of Literature and Arts; those in agronomy, animal husbandry and horticulture, taught in the College of Agriculture; and certain courses taught in the College of Engineering and in the Library School afford abundant material from which elections may be made, varying in amount according to the course pursued. In general science, students may select approximately one-third of their work from the subjects taught in other colleges of the University.

<sup>3</sup>Courses in Chemistry and Mathematics taken to meet the requirement of the prescribed list may not be counted as major electives.

<sup>4</sup>Zoology 10 may be credited as a major elective if followed by five hours of major work in zoology or entomology.

## GENERAL COURSE IN SCIENCE

To graduate from a general course in science, the following requirements must be fulfilled:

1. The student must complete the work indicated in the foregoing general prescribed list.

2. He must obtain 30 hours' credit in some one of the subjects in the foregoing list of major electives, or 40 hours in more than one.

3. He must obtain at least 5 hours' credit in physics or geology, and 5 hours in botany or zoölogy.

4. He must secure enough additional credits from the list of general electives to complete the graduation requirement of 130 hours.

A thesis course may be taken in any department (subject to the approval of the head thereof) in which the student has done 20 hours of major work preceding his senior year. Students desiring to take a thesis course in geology or mineralogy may add to their credits in those subjects the credits received for chemistry also; and students in physiology may add to their credits in that subject those in zoölogy and bacteriology. Only students graduating with a thesis will, as a rule be selected for fellowships, scholarships, and other similar university honors.

## PROSPECTUS OF COURSE OF INSTRUCTION

In the following list, the prescribed subjects, the major electives, and the general electives open to beginners are indicated for the freshman year. For the remaining years only the prescribed subjects are given. *In making up the study list for any semester students should take the subjects italicized, and select from the remainder enough to make the requisite amount of work.*

## First Year

## First Semester—

(Prescribed subjects) *Art and Design* 1; *Chemistry* 1; *Mathematics* 3 or 4; *Military* 2; *Physical Training* 1, 3 or 7, 9.

(Major Electives) *Botany* 2, 11; *Household Science* 2; *Mathematics* 1 or 2; *Zoölogy* 10, 1.

(General Electives) Astronomy 1; Entomology 1, 4; Geology 3; Physical Geography (Geology 8); Economics 7, 26; English 1; French 1; German 1; History 1, 11; Latin 1 (for those offering 3 units for entrance); Library Science 12; Rhetoric 1; Horticulture 1; Animal Husbandry 21.

Second Semester—

(Prescribed Subjects) *Chemistry* 2, 3a or 3 b and 4; *Military* 1, 2; *Physical Training* 1, 3 or 7.

(Major Electives) Botany 1, 5; Entomology 1; Geology 3; Physical Geography (Geology 8); Household Science 1, 3; Mathematics 6; Physiology 4; Zoölogy 2.

(General Electives) Astronomy 4; Economics 22, 26; English 4, 23; French 1; German 3; Greek 2; History 1; Rhetoric 1; Agronomy 6; Animal Husbandry 21.

#### Second Year

1. *German* 1 or 4; *Military* 2.
2. *German* 3 or 6; *Military* 2.

#### Third Year

1. *German* 4; *Rhetoric* 1.
2. *German* 5 or 6; *Rhetoric* 1.

### COURSE IN CERAMICS

To graduate in ceramics the student must follow one of the courses outlined below. The conditions are such that but little election can be allowed.

Special courses will be arranged for those who wish a limited amount of work in ceramics, but those pursuing them will not be entitled to a degree and will not be recognized as graduates.

### PROSPECTUS OF COURSE IN CERAMICS

#### First Year

| FIRST SEMESTER  |                    |
|---|--------------------|
| <i>Subject—</i>   | S. H. <sup>1</sup> |
| General Chemistry . . . . .                                     | 5                  |
| Alg. and Trig. (Math. 2, 4) . . . . .                           | 5                  |
| Rhetoric 1 . . . . .  | 3                  |
| Classification and Physical Testing of Clays (Cer. 1) . . . . . | 3                  |
| Military (Mil. 2) . . . . .                                     | 1                  |
| Physical Training . . . . .                                     | 1                  |
| Total . . . . .   | 18                 |

| SECOND SEMESTER                                     |       |
|---|-------|
| <i>Subject—</i>                                     | S. H. |
| Qualitative Analysis (Chem. 3a) . . . . .           | 5     |
| Analytical Geometry (Math. 6) . . . . .             | 5     |
| Rhetoric 1 . . . . .                                | 3     |
| Winning and Preparation of Clays (Cer. 2) . . . . . | 3     |
| Physical Training . . . . .                         | 1     |
| Military (Mil. 1, 2) . . . . .                      | 2     |
| Total . . . . .                                     | 19    |

<sup>1</sup>Semester hours. See p. 208.

## Second Year

| FIRST SEMESTER                         |       |
|--|-------|
| <i>Subject—</i>                        | S. H. |
| Quantitative Analysis (Chem. 5a) ..... | 5     |
| Physics 1, 3.....                      | 5     |
| Mineralogy (Geol. 5) 1, 2 .....        | 5     |
| Military .....                         | 1     |
| Total.....                             | 16    |

| SECOND SEMESTER                   |       |
|-----------------------------------|-------|
| <i>Subject—</i>                   | S. H. |
| Silicate Analysis (Chem. 5a)..... | 5     |
| Physics 1, 3.....                 | 4     |
| Geology 1.....                    | 5     |
| Physical Calculations (Cer. 3) .. | 2     |
| Military .....                    | 1     |
| Total .....                       | 17    |

## Third Year

| FIRST SEMESTER                    |       |
|-----------------------------------|-------|
| <i>Subject—</i>                   | S. H. |
| German, or French 2.....          | 4     |
| Physics of Heat (Phys. 16a, 16b.. | 4     |
| General Engineering Drawing ..    | 3     |
| Free Hand Drawing (A and D1)..    | 2     |
| Drying and Burning (Cer. 4).....  | 4     |
| Total.....                        | 17    |

| SECOND SEMESTER                                      |       |
|--|-------|
| <i>Subject—</i>                                      | S. H. |
| German, or French 2.....                             | 4     |
| Clay Modeling (A and D8).....                        | 2     |
| Working Drawings (Arch. 10)...                       | 1     |
| Body Making (Cer. 5) ...                             | 6     |
| Economic Geology of Ceramic Materials (Geol. 2)..... | 2     |
| Total .....  | 15    |

## Fourth Year

| FIRST SEMESTER                                    |       |
|---|-------|
| <i>Subject—</i>                                   | S. H. |
| Calculus (Math. 8a) .....                         | 5     |
| Glazes (Cer. 6) .....                             | 6     |
| Ceramic Stoichiometry (Cer. 7)..                  | 2     |
| Analysis of Glasses and Glazes (Chem. 6, 8a)..... | 3     |
| Total.....  | 16    |

| SECOND SEMESTER                        |       |
|--|-------|
| <i>Subject—</i>                        | S. H. |
| Physical Chemistry (Chem. 31, 33)..... | 5     |
| Colors of Bodies and Glazes (Cer. 8) . | 3     |
| Thesis (Cer. 11) .....                 | 8     |
| Total .....                            | 16    |

## COURSE IN CERAMIC ENGINEERING

## First Year

| FIRST SEMESTER                   |       |
|----------------------------------|-------|
| <i>Subject—</i>                  | S. H. |
| General Chemistry (Chem. 4) .... | 5     |
| Alg. and Trig. (Math. 2, 4)..... | 5     |
| German 4.....                    | 4     |
| General Engineering Drawing..    | 3     |
| Military .....                   | 1     |
| Physical Training.....           | 1     |
| Total .....                      | 19    |

| SECOND SEMESTER                 |       |
|---------------------------------|-------|
| <i>Subject—</i>                 | S. H. |
| Qualitative Analysis (Chem. 3a) | 5     |
| German 5.....                   | 4     |
| Analytical Geometry (Math. 6).. | 5     |
| Military .....                  | 2     |
| Physical Training.....          | 1     |
| Total .....                     | 17    |

## Second Year

| FIRST SEMESTER                   |       |
|----------------------------------|-------|
| <i>Subject—</i>                  | S. H. |
| Quantitative Analysis (Chem. 5a) | 4     |
| Physics 1, 3.....                | 5     |
| Geology 5.....                   | 4     |
| Calculus (Math. 8).....          | 5     |
| Military.....                    | 1     |
| Total ....                       | 19    |

| SECOND SEMESTER                                 |       |
|---|-------|
| <i>Subject</i>                                  | S. H. |
| Silicate Analysis (Chem. 5b)....                | 6     |
| Physics 1, 3.....                               | 4     |
| Geology 1.....                                  | 5     |
| Winning and Preparation of Clays (Cer. 2) ..... | 3     |
| Military .....                                  | 1     |
| Total .....                                     | 19    |

## Third Year

| FIRST SEMESTER                      |       |
|-------------------------------------|-------|
| <i>Subject—</i>                     | S. H. |
| Physics 16a, 16b .....              | 4     |
| Drying and Burning (Cer. 4) .....   | 4     |
| Electrical Engineering (E. E. 2) .. | 2     |
| Elec. Eng. lab. (E. E. 26) .....    | 2     |
| Rhetoric I .....                    | 3     |
| Total .....                         | 15    |

| SECOND SEMESTER                            |       |
|--|-------|
| <i>Subject—</i>                            | S. H. |
| Analytical Mechanics (T. & A. M. 7) .....  | 3     |
| Body Making (Cer. 5) .....                 | 6     |
| Working Drawings (Arch. 10) ...            | 1     |
| Steam Engines and Boilers (M. E. 11) ..... | 3     |
| Rhetoric I .....                           | 3     |
| Total ..                                   | 16    |

## Fourth Year

| FIRST SEMESTER                               |       |
|--|-------|
| <i>Subject—</i>                              | S. H. |
| Analytical Mechanics (T. & A. M. 8) .....    | 2½    |
| Resistance of Materials (T. & A. M. 9) ..... | 3½    |
| Ceramic Stoichiometry (Cer. 7) ..            | 2     |
| Glazes (Cer. 6) .....                        | 6     |
| Thesis (Cer. 11) .....                       | 1     |
| Total .....                                  | 15    |

| SECOND SEMESTER                    |       |
|------------------------------------|-------|
| <i>Subject—</i>                    | S. H. |
| Surveying (C. E. 10) .....         | 2     |
| Geology 2 .....                    | 2     |
| Ceramic Construction (Cer. 10) ... | 3     |
| Thesis (Cer. 11) .....             | 8     |
| Total .....                        | 15    |

## PROSPECTUS OF COURSE IN CEMENT MAKING

By making the substitutions indicated below in the course in ceramics, that course will be found to meet the needs of the student who wishes to prepare for the manufacture of limes and cements:

In the first semester of the third year, substitute chemistry 65 and ceramics 10 for Art and Design I and Ceramics 4. In the second semester substitute physics 17 for Art and Design 8.

In the fourth year, first semester, substitute chemistry 68b and civil engineering 5 for ceramics 6 and chemistry 68a; and in the second semester, substitute ceramics 9 for ceramics 8.

## COURSE IN CHEMISTRY

To graduate in chemistry the candidate must take, in addition to the subjects of the general prescribed list as printed on pp. 97-8 (including the second alternative in chemistry), the following studies, prescribed for this course:

|  |        |       |
|--|--------|-------|
| Chemistry 5b, 9b, 11, 14, 9I, 6I, 65,<br>or 69 ..... | 23     | hours |
| Economics 2, 7, 22 or 26.....                        | 2      | "     |
| English 1 or History 1.....                          | 4      | "     |
| German 1, 3, 4, 5.....                               | 16     | "     |
| Library Science 12.....                              | 1      | "     |
| Mathematics 1 or 2.....                              | 2 or 3 | "     |
| Mathematics 6 .....                                  | 5      | "     |
| Philosophy 2 or 3.....                               | 2 or 3 | "     |
| Physics 1, 3 .....                                   | 8      | "     |

He must further take 22 hours' work from the general list of major electives, subject to the approval of the head of the department; and additional studies, subject to the approval of the Dean of the College, sufficient to amount to 130 hours' credit in all, including military and physical training.

He must also file a thesis acceptable to the head of the department. Summarized, the course includes:

|                                  |    |       |
|----------------------------------|----|-------|
| Chemistry .....                  | 51 | hours |
| Literature and Arts courses..... | 32 | "     |
| Mathematics and Physics .....    | 18 | "     |
| Elective .....                   | 25 | "     |
| Military and Physical Training.. | 7  | "     |

---

Total.....130 hours

### PROSPECTUS OF SUBJECTS PRESCRIBED IN CHEMISTRY

#### First Year

1. General Elementary Chemistry (Chem. 1); German 1; Mathematics 1, 3 or 2, 4; Rhetoric 1; Military 2; Physical Training 1, 3 or 7, 9.

2. Descriptive Inorganic Chemistry (Chem. 2); German 3; Mathematics 6; Qualitative Analysis (Chem. 3a); Military 1, 2; Physical Training 1, 3 or 7.

#### Second Year

1. German 4; Physics 1, 3; Quantitative Analysis (Chem. 5a); Military 2; History 1, 3 or English 1.

2. German 5; Organic Chemistry (Chem. 9 and 9a); Physics 1, 3; Rhetoric 1; Military 2.

## Third Year

1. Assaying or Gas Analysis (Chem. 69 or 65); Library Science 12; Mineralogy (Geol. 5a); Organic Chemistry (Chem. 9b and 14); Quantitative Analysis (Chem. 5b); Seminary (Chem. 90).
2. Economics 2; Geology 1 or French 2; Industrial Chemistry (Chem. 61); Physical Chemistry (Chem. 31, 33a; Seminary (Chem. 90); Sanitary Analysis (Chem. 10 or Elective); Chemical Technology (Chem. 6a or Elective).

## Fourth Year

1. Philosophy 2; Seminary (Chem. 91); Thesis or Elective (Chem. 11); Electives.
2. Seminary (Chem. 91); Thesis (Chem. 11); Electives.

## COURSE IN CHEMICAL ENGINEERING

The work of the technical chemist or superintendent is frequently so closely associated with mechanical and other engineering lines as to make a knowledge of these subjects essential. To meet these conditions, the following four years' course in chemistry and related engineering subjects has been arranged.

Preliminary preparation in German is required equivalent to two years of high school or one year of University work.

The requirements for graduation in Chemical Engineering are the same as those for Chemistry as indicated on p. 102 except that the special list of prescribed studies is as follows:

|                                   |          |
|-----------------------------------|----------|
| Chemistry 5b, 6a, 8a, 9b, 11, 14, |          |
| 65, 69, 90, 91.....               | 29 hours |
| Economics 2, 7, 22, or 26.....    | 2 "      |
| German 4, 5 .....                 | 8 "      |
| Library Science 12 .....          | 1 "      |
| Mathematics 2, 4, 6, 8a.....      | 15 "     |
| Mechanics 7, 8, 9.....            | 9 "      |
| Mechanical Engineering 11.....    | 3 "      |
| Mineralogy 7 .....                | 3 "      |
| Physics 1, 3, 15.....             | 12 "     |

Summarized, the course includes:

|                                  |    |       |
|----------------------------------|----|-------|
| Chemistry .....                  | 57 | hours |
| Literature and Arts .....        | 17 | "     |
| Mathematics and Physics .....    | 27 | "     |
| Mechanics and Mech. Eng'g.....   | 15 | "     |
| General Elective .....           | 10 | "     |
| Military and Physical Training.. | 7  | "     |

---

Total.....133 hours

### PROSPECTUS OF SUBJECTS PRESCRIBED IN CHEMICAL ENGINEERING

#### First Year

1. Drawing (G.E.D. 1b); General Elementary Chemistry (Chem. 1); Rhetoric 1; Mathematics 1, 3 or 2, 4; Military; Physical Training 1, 3 or 7, 9; Shop Practice (M.E. 1).

2. Descriptive Inorganic Chemistry (Chem. 2); Rhetoric 1; Mathematics 6; Qualitative Analysis (Chem. 3a); Military 1, 2; Physical Training 1, 3 or 7; Shop Practice (M.E. 1).

#### Second Year

1. Mathematics 8a; Physics 1, 3; Quantitative Analysis (Chem. 5a); German 4; Military 2.

2. Organic Chemistry (Chem. 9, 9a); Physics 1, 3; Quantitative Analysis (Chem. 5b); German 5.

#### Third Year

1. Assaying (Chem. 69); Organic Chemistry (Chem. 9b, 14); Library Science 12; Physical Measurements (Phys. 15); Mineralogy (Geol. 5a); Seminary (Chem. 90).

2. Chemical Technology (Chem. 6a); Geology 1 or Elective; Industrial Chemistry (Chem. 61); Physical Chemistry (Chem. 31, 33a); Seminary (Chem. 90); Theoretical and Applied Mechanics 7.

#### Fourth Year

1. Fuel and Gas Analysis (Chem. 65); Seminary (Chem. 91); Steam Engines (Mech. Eng'g. 13); Theoretical and Applied Mechanics 8, 9; Thesis (Chem. 11) or Elective.

2. Economics 2; Iron and Steel Analysis (Chem. 8); Seminary (Chem. 91); Steam Boilers (Mech. Eng'g. 11); Thesis (Chem 11); Elective.

## COURSES FOR 'TEACHERS OF SCIENCE'

To graduate with a preparation for the teaching of science in the secondary schools, the student must meet the requirements of the general science course, as described on p. 99, choosing his major electives in those subjects which he wishes especially to teach, and adding to the prescribed list in general science, education 1, 3 and 7, psychology 1, philosophy 1, and at least four hours more in education or psychology.

## ELECTION OF MAJOR SUBJECTS

As a preparation for the teaching of specialties in secondary schools, students are advised to make elections of major work as follows:

Astronomy 3, 6, 14, 15; 11 hours.

Botany 11, 1, 2; 15 hours.

Chemistry 1, 2, 3a, 5a, 9c, 31; 23 hours.

Geology 5, 1, 8, 4; 19 hours.

Household Science 1, 2, 3, 5, 9; 11 hours.

Mathematics 2, 4, 6, 8a, 10, 11; 20 hours.

Physics 1 and 3 or 2a, 5a, 6a; 13 to 16 hours.

Physical Geography (Geol. 8); 6 hours.

Physiology 4, 5f; 7 hours.

Zoölogy 1, 4, 17; 18 hours. Entomology 3 may be profitably added to the above.

## COURSE IN HOUSEHOLD SCIENCE

To graduate in household science a student must take the studies of the general prescribed list (p. 97), including the first alternative in chemistry, and in addition the following studies especially prescribed for this course:

Art and Design 1, 16; 4 hours.

Botany 1, 5; 10 hours.

Chemistry 5a or 13 a, 5c; 5 to 10 hours.

Economics 1 and 16B; 7 hours.

Household Science 1 to 10 except 8; 24 hours.

Physics 2a; 4 hours (1st semester).

Physiology 4; 5 hours.

Zoölogy 10; 5 hours.

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<sup>1</sup>For fuller details see the School of Education.

Additional subjects sufficient to make the total of 130 hours' work required for graduation may be taken, subject to the approval of the Dean of the College, from any courses offered by the University.

### PROSPECTUS OF PRESCRIBED SUBJECTS

#### First Year

1. Art and Design 1; Section B, C or D; Chemistry 1; Mathematics 4; Rhetoric 1; Zoölogy 10.
2. Household Science 1; Chemistry 3b and 4; Botany 1; Rhetoric 1.

#### Second Year

1. Chemistry 5a or 13a; German 1; Household Science 2, 6 7; Art and Design 16.
2. Chemistry 5c; German 3; Botany 5; Art and Design 16; Household Science 5.

#### Third Year

1. Economics 1; German 4; Household Science 4; Physics 2a; Architecture 29.
2. German 5 or 6; Household Science 3, 8; Economics 16B or 17.

#### Fourth Year

Household Science 9, 10.

See elective list and requirements for graduation.

### COURSE IN MATHEMATICS

To graduate in mathematics, the candidate must take the subjects of the prescribed list on p. 97 where physics may be substituted for the required work in chemistry, and also mathematics 2, 6, 8a, 8b, 10, 11, 16, 17. He must, further, take 20 hours' work from the list of major electives printed on p. 98, which shall include the preparation of an acceptable mathematical thesis (mathematics 15), and ten hours in some line of applied mathematics. The remaining work necessary to complete the 130 hours required for graduation may be selected from any uni-

versity subjects, with the approval of the Dean of the College. The general electives open to students in this course are the same as those open to the students in the general course in science. (See p. 99).

### PROSPECTUS OF PRESCRIBED SUBJECTS

#### First Year

1. Mathematics 1 or 2, and 3 or 4; German 1 or 4; Chemistry 1 (or Physics 1, 3); Military 2; Physical Training 1, 3 or 7, 9.
2. Mathematics 6; Chemistry 3a or 3b, 4 (or Physics 1, 3); German 3 or 5 or 6; Military 1, 2; Physical Training 1, 3 or 7.

#### Second Year

1. Mathematics 8a; German 4; Rhetoric 1; Military 2.
2. Mathematics 10, 11; German 5 or 6; Rhetoric 1; Military 2.

#### Third Year

1. Mathematics 8b, 16; Applied Mathematics.
2. Mathematics 8b, 17; Applied Mathematics.

#### Fourth Year

1. Mathematics 15.
2. Mathematics 15.

### COURSE IN PHYSICS

To graduate from a special course in physics a student must take the studies of the general prescribed list (p. 97), including the first alternative in chemistry, together with the following studies especially prescribed for this course.

Mathematics 1 or 2, 6, 8a (or 7 and 9); 12 to 19 hours.

Physics 1 and 3, or 2a and 2b.

He must further choose from the major elective list (p. 98) physics courses sufficient to bring the total of his credits in physics up to 30 hours, together with additional subjects taken from any university offerings, but subject to the approval of the Dean of the College sufficient to complete the graduation requirement of 130 hours. He

must also file a thesis approved by the head of his department in the line of his major work.

### PROSPECTUS OF PRESCRIBED SUBJECTS

#### First Year

1. Advanced Algebra and Trigonometry (Math. 2, 4); German 1 or 4; Chemistry 1; Rhetoric 1; Military 2; Physical Training 1, 3 or 7, 9.

2. Analytical Geometry (Math. 6); German 3 or 5 or 6; Chemistry 3b, 4; Rhetoric 1; Military 1, 2; Physical Training 1, 3 or 7.

#### Second Year

1. Physics 1 or 2, 3; Differential Calculus (Math. 7 or 8a); German 4; Military 2.

2. Physics 1 or 2, 3; Integral Calculus (Math. 9); German 5 or 6; Military 2.

#### Third and Fourth Years

Physics 5a, 6a, and 10.

### THE SIX-YEAR MEDICAL COURSE

In addition to the usual four years' medical course, the University offers a six years' continuous course in general science and medicine. This course leads to the degree of bachelor of arts upon the completion of four years' work, and to the degree of doctor of medicine at the end of the six years' course. It includes everything contained in the four years' medical course, and in addition enables the student to go more deeply than would otherwise be possible into the fundamental sciences upon which medical studies are based.

Students who wish so to combine their work in general science with their professional studies in medicine as to receive both degrees may accomplish this purpose by pursuing at the University in Urbana the three years' work described below, including a year of medical studies, and then continuing their medical work at the Medical Department in Chicago.

The first three years' work must include all the subjects in the general prescribed list, page 97, (including the second alternative in Chemistry), and the following list of studies, especially prescribed for this course:

Art and Design 1.

Chemistry 9c; 2 hours.

Botany 5; 5 hours.

Latin, 8 hours.<sup>1</sup>

Physics 2a; 8 hours.

Physiology 1, or 1 and 2.

Psychology 1, 9; 5 hours.

Zoölogy 10, 2, 3; 16 hours.

The *prescribed* studies should be taken according to the following prospectus:

### PROSPECTUS OF PRESCRIBED COURSES

#### First Year

1. Art and Design 1; Elementary Chemistry (Chem. 1); Rhetoric and Themes (Rhet. 1); Military 2; Physical Training for Men 1, 3; for Women 7, 9; Trigonometry (Math. 4); Zoölogy 10.

2. Descriptive Inorganic Chemistry (Chem. 2); Qualitative Analysis (Chem. 3a); Rhetoric and Themes (Rhet. 1); Military 1, 2; Physical Training; for Men 1, 3, for Women 7; Zoölogy 2.

#### Second Year

1. German 1 or 4, or Latin; Zoölogy 3; Quantitative Analysis (Chem. 5a); Military 2; Physics 2a.

2. German 3 or 5 or 6 or Latin; Zoölogy 3; Organic Chemistry (Chem. 9, 9c); Military 2; Physics 2a.

#### Third Year

1. German 4; Psychology 1, 6; Physiology 1.

2. German 5 or 6; Physiology 1; Bacteriology (Bot. 5); Electives.

#### Fourth Year

All electives.

Students who complete the above three years of prescribed work at the University, together with electives

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<sup>1</sup>If Latin has not been offered for entrance.

sufficient to amount to 97 hours' credit, will be given the degree of bachelor of arts at the commencement next following the completion at the Medical College of the work in human anatomy, physiology of the special senses and of the nervous system, therapeutics, general pathology, pathological anatomy, and surgical pathology (virtually one year's work).

The following subjects included in the above prospectus also count toward the medical degree:

Chemistry (general, organic, qualitative and quantitative analysis, and Toxicology), Biology (Zoölogy), Physiology, Normal Histology. Embryology, and Bacteriology.

Upon the satisfactory completion of the remaining three years of the medical course the University will confer the degree of doctor of medicine.

### COURSE IN LIBRARY SCIENCE

To graduate with the degree of bachelor of arts in library science the candidate must take the subjects of the prescribed list on page 97, including the first alternative in chemistry, and also library science 1, 2, 3, 4, 7, 14. He must further take 40 hours' work from the list of major electives, and additional studies necessary to complete the 130 hours required for graduation, which may be selected from any University department subject to the approval of the Dean of the College.

### PROSPECTUS OF PRESCRIBED COURSES

#### First Year

1. Art and Design; Chemistry 1; Mathematics 3 or 4; Military 2; Physical Training 1, 3 or 7, 9.
2. Chemistry 3b, 4; Military 1, 2; Physical Training 1, 3 or 7.

#### Second Year

1. German 1; Military 2.
2. German 3; Military 2.

## Third Year

1. German 4; Rhetoric I.
2. German 5 or 6; Rhetoric I.

## Fourth Year

1. Library 1, 2, 3, 4, 7, 14.
2. Library 1, 2, 3, 4, 14.

## DESCRIPTION OF DEPARTMENTS

ASTRONOMY.—The Astronomical Observatory contains a 12-inch equatorial telescope, a 3-inch combined transit and zenith telescope, both by Warner and Swasey, and Brashear, two small equatorials, a Riefler clock, three chronometers, and a number of small instruments for student use. A master clock for the electrical control of the various clocks on the University campus is mounted in the clock room of the Observatory.

BOTANY.—The botanical laboratories are: One of large size with full equipment of microscopes, microtomes, aquaria, models, charts, etc., for general work; one especially arranged for instruction and research in vegetable physiology, having attached a glazed structure, two stories in height, adapted to facilitate experiments upon living plants and to grow specimens required in the laboratories; one fitted up for bacteriological instruction and investigation (in agricultural building) supplied with the necessary apparatus and materials; and several smaller apartments for special purposes.

The department is provided also with a room for the herbarium and facilities for work in connection therewith; work-rooms for the preparation of specimens; storage-rooms for apparatus, utensils, reagents, and materials; dark room for photography, and rooms for offices.

Special attention has been given to parasitic fungi; and the collection of specimens and of literature upon the subject is ample for various lines of original investigation.

CERAMICS.—Much of the student's work is done in the regular classes and laboratories of the well equipped

departments of chemistry, physics, geology, and engineering, where he comes in contact with students who are specializing in those subjects. His purely technical work is carried on in laboratories newly furnished with the necessary machines, kilns, and furnaces. The close relations which obtain between the department and the Clay workers' Association of Illinois and also with the Geological Survey, whose investigations in clays are made in our laboratories, afford the student exceptional facilities for contact with both practical work and experienced clay workers.

CHEMISTRY.—The chemical building has a total floor area of approximately 80,000 square feet. Two main laboratories, with desk room for 350 students, are devoted to general chemistry. Two other main laboratories, with room for 80 students each, are equipped for analytical and organic chemistry. Smaller laboratories are provided for special work in sanitary chemistry, physical chemistry, metallurgy and assaying, gas analysis, food investigation, coal survey and constant temperature rooms for calorimetry.

Special laboratories are also equipped for conducting the chemical survey of the waters of the state, and for doing the chemical work of the engineering experiment station. Numerous small research rooms are provided for special individual work. The chemical library is well supplied with sets of the more important journals and current periodicals. Especially noteworthy is the addition to the seminary equipment of the Palmer Memorial Library, available to all chemical students under suitable restrictions.

ENTOMOLOGY.—This department utilizes for purposes of instruction the entomological collections, library, and equipment belonging to the University or made immediately available to students by the State Laboratory of Natural History and the office of the State Entomologist, both permanently established here. The entomological

work of the Natural History Survey, now prosecuted continuously, and the scientific and economic studies of the State Entomologist and his assistants, give entomological students extraordinary privileges of experience in the laboratory, the office, and the field, in both scientific and economic work.

The instructional equipment of this department consists of a special laboratory for students, with an ample general apparatus for field work, and two special collections, one for reference by students engaged in the determination of species, and the Bolter collection of 120,000 specimens—maintained separately by the University and open to advanced students under suitable restrictions. The department also owns numerous *papier-maché* models, a collection of wall charts, and many microscopic slides especially prepared for students' use.

GEOLOGY.—The laboratories are supplied with all the apparatus and tools necessary to carry forward the courses offered, and the lecture room is fully equipped with maps, charts, models, and other illustrative material.

The collection of fossils comes principally from the paleozoic, but includes a representative series from the higher groups. It contains 49,000 specimens (seven hundred and forty-two of the types described in the reports of the Illinois geological surveys are included) and 200 thin sections of corals and bryozoa.

The collection of minerals contains 12,000 specimens, and that of rocks 9,000 specimens, among which is a large number of polished granites, marbles, and other ornamental building stones, 1,000 thin sections of rocks and minerals, and 575 crystal models.

There is also a collection of Illinois soils containing 104 specimens; and a large collection of Illinois clays with their manufactured products.

MATHEMATICS.—The department is supplied with eighty-five of Brill's mathematical models. The collection includes a set of plaster models illustrating the properties

of surfaces of the second order, a set of string models for ruled surfaces, a set of paper models illustrating the real circular sections of certain conicoids, a complete set of Brill's models for the theory of functions, and a collection of surfaces of third order.

PHYSICS.—The department offers a lecture course in general descriptive physics with class-room experiments, extending through the year, and accompanied by an introductory laboratory course in physical measurements. This is followed by two courses, one experimental and the other theoretical. In the experimental course the student is trained in the most exact methods of making the fundamental physical measurements and taught how to discuss his results. The theoretical course running parallel to this discusses, with the aid of elementary calculus, the theory of some of the main subjects of physics. In the senior year the student is supposed to take up some special problem for investigation and to center his laboratory work about that. An advanced mathematical course is also offered for those who wish to follow the most advanced theories and results of the science.

PHYSIOLOGY.—The special objects of the courses in physiology are as follows: (1) To give prospective students of medicine a detailed practical knowledge of the normal histological structure and vital processes of the body, and a working familiarity with the instruments of precision used in the investigation of disease. (2) To give students of all branches of biology a training in deducing logically necessary conclusions from data obtained by their own observations. (3) To furnish such a knowledge of physiology as will serve as a basis for future studies in hygiene.

The department of physiology occupies five rooms in Natural History Hall; a general laboratory, a lecture room, a private laboratory, and an advanced laboratory on the top floor, and an animal room in the attic. The general laboratory, 35 by 56 feet, is fitted at one end with

desks for chemical and similar work, and at the other end with tables for use with the microscope and other apparatus requiring a stable support.

PSYCHOLOGY.—The laboratory is well equipped with materials and apparatus for a large number of class experiments upon sensation, which the student is required to conduct himself, and of which a careful record is kept. The higher mental function are then studied experimentally, and the experimenter held responsible for the purity of the experimental conditions and the method of procedure.

A full line of periodical literature is made accessible by the University, and this serves as a basis of reports in the seminary.

For original research the laboratory is well equipped with suitable apparatus and every incentive is given toward a high grade of work.

ZOÖLOGY.—The equipment of the department is contained in three students' laboratories, an instructor's laboratory, a lecture room, a private office, a store room, and a dark room for photography. Advanced and graduate students have the use of the library and equipment of the State Laboratory of Natural History, which occupies rooms in Natural History Hall.

## THE SCHOOL OF EDUCATION

It is the purpose of the School of Education to bring together all the resources of the University which contribute in a professional way to the preparation of three classes of workers in our public school system:

1. *The High School Teacher.*—The school provides for the needs of the high school principal, by supplying a general knowledge of the various subjects of the high school curriculum as well as a knowledge of organization and administration as applied to the secondary school;

and for those of the departmental specialist requiring a more extended knowledge of a few subjects.

2. *The Supervisor of Special Subjects.* Manual training, domestic science, music, drawing and physical training as now taught in the better class of school systems, are subjects which demand specially trained supervisors; and the exceptional facilities of the University for instruction in these subjects are thoroughly utilized.

3. *The School Superintendent.*—Demanding, as he does, a knowledge of the development of school systems, a keen insight into pedagogical problems, and an appreciation of child-nature, the superintendent needs extended preparation, and this the School of Education is prepared to give.

The faculty of the school consists of thirty-one members and includes all those instructors who offer courses primarily intended for prospective teachers.

The School of Education has the power to recommend the granting of a special certificate—*The University Certificate of Qualification to Teach*—to candidates who take the following courses:

1. Elementary Psychology (Psychology 1 or 2, 3 hrs.)
2. Principles of Education (Education 1, 5 hrs.)
3. High School Organization and Administration (Educ. 6, 3 hrs.)
4. Philosophy—a three hours' course.
5. A required amount of work in the special subject, or subjects, which the candidate intends to teach. This amount is different for different subjects. The candidate for a certificate is expected to do work of a quality considerably higher than that indicated by mere passing grades.

The certificate states the subjects of the high school curriculum which the holder is prepared to teach, such preparation being based upon at least two years' university work in the subject. Students preparing to be supervisors of special subjects must devote considerably more time than this to the preparation. Prospective super-

intendents must complete two years' work in the department of education in addition to that already prescribed for the certificate.

All juniors and seniors in the University who are candidates for the University Certificate of Qualification to Teach must enroll in the School of Education. Other students taking any course offered by the Department of Education or any of the teachers' courses offered by other departments are eligible to such enrollment. At registration time in the fall all students who desire to enroll in the School should confer with the Director, and should fill out the enrollment card of the School, after they have registered in the usual way with the Deans of their Colleges.

The course of study of the School of Education is made up of offerings selected from the work of the various departments of instruction in the University. The course is elective except for the graduation requirements of the College in which the student is registered, and for the prerequisites to the granting of the Certificate of Qualification to Teach.

The work is arranged in four somewhat distinct groups:

(a) Courses in Education, Psychology and Philosophy bearing directly upon the profession of the teacher.

(b) Courses especially intended for teachers, offered by various departments of the University.

(c) Suggested programs for students preparing to become special supervisors of Domestic Science, Drawing, Manual Training, Music, or Physical Training.

(d) Suggested programs for continuous and progressive work in subjects represented in the high school curriculum.

#### SPECIAL LECTURES

A number of special lectures are offered each year by the School of Education. The State Superintendent of Public Instruction and the Presidents of the five State

Normal Schools of Illinois are officially connected with the School in the capacity of Special Lecturers, each speaking before its students two or more times each year. Other educators of prominence are also invited from time to time to do similar service.

#### PRACTICE TEACHING

Although it is impossible to introduce into the work of any professional school, the actual conditions under which the profession must be practiced, nevertheless, it is important to do so as fully as possible. In the School of Education this is done through observation and practice teaching in some organized school system. For this purpose the Academy of the University, and neighboring high schools are utilized. Both observation and practice are under the direction of competent critic-teachers, criticizing their work and offering helpful suggestions.

#### UNIVERSITY OF ILLINOIS PEDAGOGICAL INSTITUTE

This is an organization of the students and faculty of the School of Education conducted in every respect as are teachers' associations among those actually engaged in school work. It holds monthly sessions from October to May inclusive. At each session an address is delivered by some one of the special lecturers of the School of Education, while another part of the session is devoted to papers, addresses, and discussions by the members of the association. All members of the University, as well as the public school teachers of the State, are eligible as associate members of the association. Graduates of the School of Education retain their active membership.

#### THE PEDAGOGICAL LIBRARY AND MUSEUM

In the rooms of the Department of Education in University Hall is a considerable collection of photographs of school buildings, drawings and constructive work by pupils in the public schools, and the nucleus of a representative collection of apparatus for the school laboratory.

In addition to this are more than 8,000 text-books, national, state and city reports, courses of study and other educational documents of value. A card catalog of 9,000 titles carefully classified, covering recent educational magazine literature is also in the rooms of the Department.

*The special announcement of the School of Education describing the work in greater detail may be had by addressing the Registrar of University.*

# COLLEGE OF ENGINEERING

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## FACULTY<sup>1</sup>

EDMUND JANES JAMES, PH.D., LL.D., President.

JAMES McLAREN WHITE, B.S., ACTING DEAN.

### *In Architecture—*

N. CLIFFORD RICKER, D.ARCH., Professor.

N. A. WELLS, M.P., Professor.

J. M. WHITE, B.S., Professor.

J. W. CASE, B.S., Assistant Professor.

C. R. CLARK, B.S., Instructor.

J. T. VAWTER, B.S., Instructor.

J. C. GUSTAFSON, B.S., Fellow.

### *In Civil Engineering—*

I. O. BAKER, C.E., D.ENG., Professor.

F. G. FRINK, M.S., Assistant Professor.

F. O. DUFOUR, C.E., Assistant Professor.

C. W. MALCOLM, B.S., Instructor, in Structural Engineering.

R. I. WEBBER, B.S., Instructor.

L. G. PARKER, B.S., Instructor.

L. A. WATERBURY, C.E., Instructor.

H. GARDNER, B.S., Instructor in Surveying.

### *In Electrical Engineering—*

MORGAN BROOKS, PH.B., M.E., Professor.

T. M. GARDNER, M.M.E., Assistant Professor.

J. M. BRYANT, B.S., Instructor.

F. G. WILLSON, B.S., Instructor.

E. I. WENGER, B.S., Instructor.

M. K. AKERS, B.S., Assistant in Electrical Engineering Laboratory.

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<sup>1</sup>The instruction in mathematics, language, chemistry, etc., is under the direct supervision of the Colleges of Literature and Arts, and Science, and the names of instructors in these subjects, as well as in military and physical training, are given on page 71ff.

*In Mechanical Engineering—*

- L. P. BRECKENRIDGE, PH.B., Professor.  
G. A. GOODENOUGH, M.E., Assistant Professor.  
O. A. LEUTWILER, M.E., Assistant Professor.  
D. T. RANDALL, M.E., Assistant Professor, Steam Engineering.  
C. F. PERRY, S.B., M.E., Assistant Professor, Machine Construction; in charge of Mechanical Department Shops.  
D. L. SCROGGIN, Instructor, Machine Shop.  
J. M. SNODGRASS, B.S., Instructor, Railway Mechanical Engineering.  
J. J. HARMAN, B.S., Instructor.  
R. C. MATTHEWS, B.S., Instructor.  
W. V. DUNKIN, B.S., Instructor, Machine Design.  
C. M. GARLAND, B.E., Instructor, Mechanical Engineering.  
W. WATSON, Instructor, Foundry.  
E. T. LANHAM, Instructor, Forge Shop.  
F. ELLIS, Instructor, Wood Shop.  
H. F. GODEKE, B.S., Assistant, Laboratory.  
L. W. GOBEN, Assistant, Machine Shop.  
A. G. PIPPIT, Assistant, Wood Shop.  
G. H. JERNBERG, Assistant, Forge Shop.  
H. E. BONER, B.S., Fellow.

*In Municipal and Sanitary Engineering and Theoretical and Applied Mechanics—*

- A. N. TALBOT, C.E., Professor, Municipal and Sanitary Engineering; in charge of Theoretical and Applied Mechanics.  
C. H. HURD, B.S., Assistant Professor, Applied Mechanics.  
R. H. SLOCUM, B.S., Instructor, M. and S. Engineering.  
L. E. MOORE, B.S., Instructor, Theor. and Appl. Mechanics.  
C. H. PIERCE, B.S., Instructor, Theor. and Appl. Mechanics.  
W. L. CRONIN, B.S., Instructor, Appl. Mechanics.  
F. A. LAMOTTE, M.S., Instructor, Theor. and Appl. Mechanics.

*In Physics—*

- A. P. CARMAN, Sc.D., Professor.  
C. T. KNIPP, PH.D., Assistant Professor.  
F. R. WATSON, PH.D., Assistant Professor.  
W. F. SCHULZ, E.E., Instructor.  
A. H. SLUSS, B.S., Instructor.  
F. C. BROWN, A.B., Instructor.  
C. S. HUDSON, M.S., Instructor.  
W. M. STEMPLE, A.B., Fellow.

*In General Engineering Drawing—*

V. T. WILSON, M.E., Assistant Professor.

C. L. McMASTER, C.E., Instructor.

T. R. AGG, B.S., Instructor.

R. B. OTIS, B.S., Instructor.

## GENERAL INFORMATION

The purpose of this college is a threefold one:

1. To train and prepare men for the efficient practice of the different professions of engineering and that of architecture, as well as to become managers of great business and industrial enterprises. Both professional and cultural studies are prescribed, since the successful engineer must possess broad views and be able to write and speak correct and vigorous English in order to present his views clearly and effectively. Training in proper methods for solving engineering problems is of much greater importance than the collection of stores and data, however valuable. But the graduate must be an efficient worker at the beginning of his career in some specialty of his chosen profession.

2. To provide instruction for graduates and to supervise their studies in selected fields, thus meeting a demand for highly specialized instruction and research.

3. To make original investigations and experiments in those lines of research which are of greatest interest and promise to the engineering and industrial enterprises of the citizens of this state.

## EQUIPMENT

The buildings are described on pages 47-51.

The special equipment of each department is described in connection with that department. The general equipment of the College consists of a good reference library of indexes, pocket-books, mathematical tables, and other works, together with a very valuable collection of apparatus for economizing time and ensuring accuracy of engineering calculations, and checking computations.

The principal instruments are Thomas's 10-place arithmometer, giving accurate results to 20 places; Thacher's computing scales; Grant's computing machines; other calculating machines, various types of slide rules, adders, etc.; Amsler's polar planimeter and Amsler's integrator; Coradi's linear and polar planimeters for very accurate measurement of irregular plane areas; Coradi's pantagraph for the automatic reduction of drawings and maps.

### ADMISSION

Applicants for admission to the freshman class of the University in the College of Engineering must satisfy the general requirements described in paragraphs 1 to 7 on pages 75-6.

Admission may be obtained, as in the case of the other Colleges and Schools, either by presenting a certificate from an accredited high school, as described on page 75; or by transfer of credits from some other college or university<sup>1</sup>; or by examination. Subjects which the high school certificate, if presented, must cover, or on which examinations must be passed, are described below.

In all cases 14 units<sup>2</sup> of high school work are required. Of these the following are prescribed and substitutes are not accepted:

|                                 |     |       |
|---------------------------------|-----|-------|
| Algebra .....                   | 1 ½ | units |
| English Composition .....       | 1   | unit  |
| English Literature .....        | 2   | units |
| Geometry, Plane .....           | 1   | unit  |
| Geometry, Solid and Spherical.. | ½   | unit  |

The remainder of the 14 units required for admission must be made up from the elective subjects listed in the table on page 77 and in the amounts there described.

For admission as special students, admission by transfer of credits, and admission to advanced standing see pages 85-6.

<sup>1</sup>See page 86.

<sup>2</sup>See page 208.

## DESCRIPTION OF DEPARTMENTS

## ARCHITECTURE

This department offers two courses of instruction and practice, preparing the graduate to enter the profession of architect, or that of architectural engineer.

## EQUIPMENT

A large collection of casts of ornament, models of structures, working drawings and blue prints, specimens of stones, bricks, tiles, terra cotta, fixtures and fittings, of 300 species of American woods, etc., is arranged in the architectural museum. More than 20,000 engravings, photographs, etc., mounted on cards, are classified for quick reference in the drawing rooms and library. An electric lantern is used in a specially fitted room, together with a collection of 6,500 lantern slides illustrating the history of architecture and of art. A very fine architectural library is located in a large room in the department, and is open for use by students during the entire day. A vertical file case contains a large classified collection of plates from architectural journals and mounted photographs. A fine collection of 2,400 stereoscopic views has recently been purchased.

## ARCHITECTURAL ENGINEERING

This course of study prepares students for the State examination for the practice of architecture, and for professional practice as architectural engineers, structural designers and computers, as well as superintendents of construction. It is intended for students who prefer the structural and mathematical side of the profession to its artistic side, and who desire to pursue the full engineering course in mathematics and to acquire a thorough knowledge of the iron and steel construction now employed in buildings. It differs from the architectural course principally in the addition of a second year of mathematics, of a year of study in bridge analysis and design, of a year

in architectural engineering, and in devoting relatively less time to architectural drawing and design.

### CIVIL ENGINEERING

The design in this department is to furnish a course of theoretical instruction, accompanied and illustrated by a large amount of practice. While the instruction aims to be practical by giving the student information and practice directly applicable in his future professional work, the prime object is the development of the mental faculties. The power to acquire information and ability to use it are held to be of far greater value than any amount of so-called practical knowledge.

### EQUIPMENT

This department has an extensive equipment of compasses, engineers' transits, solar transits, levels,—ordinary and precise,—plane tables, sextants, chronometers, barometers, etc. The department is provided with a collection of structural shapes and with full-sized joints of an actual railroad bridge, sections of columns, eye-bars, etc., and a collection of lithographs, photographs, and blue-prints of bridges and buildings.

The *cement laboratory* occupies rooms in the Law Building, and is provided with slate tables, testing machines, molding machines, sieves, etc., and sample barrels of hydraulic cement, varieties of sand, and other necessary materials.

The *road laboratory* occupies a room in the basement of the Electrical Engineering Laboratory, and is provided with machines for testing the resistance of macadam material to impact and abrasion and for making the cementation test. The laboratory is also supplied with a variety of rattlers and other devices for testing paving material.

## ELECTRICAL ENGINEERING

This is a course in theoretical and applied electricity. The first two years of work are substantially the same as in the other engineering courses, including practical work in drafting room and shop, as well as instruction in the fundamental principles of mathematics and physics. The last two years, while involving more advanced theoretical study, include practice in the design and operation of electrical apparatus, and the study of commercial applications. Courses in civil and mechanical engineering and in economics are also included.

## EQUIPMENT

The 200 kilowatt power plant of the University located in the Electrical Laboratory Building is an example of recent construction, and affords opportunity for tests. The special direct and alternating current generators of the department furnish the power required to operate the various experimental apparatus and for charging the new storage battery. The various types of generators, motors, converters and transformers are well represented, often in duplicate. Modern measuring instruments of unusual range are amply provided. Electric lamps of all recent types may be tested by the photometers, and telegraph and telephone instruments illustrate modern practice. Elaborate switchboards designed for rapid experimental work distribute current wherever required. A 200-H.P. test car fully equipped with electrical and mechanical measuring instruments is now in operation on the interurban line running through the University grounds. Through the courtesy of the Illinois Traction System this car has every facility for operating over its lines.

## MECHANICAL ENGINEERING

It is the primary object of the Department of Mechanical Engineering to give its students a thorough training in the theoretical principles underlying the construction and

operation of machinery and the generation and transmission of power. The theoretical instruction is supplemented by shop and laboratory work of a practical character.

### EQUIPMENT

The *drawing rooms* are equipped with card indexes, reference books, catalogs, gear charts, etc. In the cabinet rooms are kinematic models and sectioned steam specialties.

The *Steam Engineering Laboratory* contains steam engines of various types, a York refrigerating machine of 10 tons refrigerating capacity a DeLaval steam turbine direct connected to a compound centrifugal pump, a gas producer, a special test boiler of 210 horse power, an independent superheater, a compound air compressor, a four stage air compressor, several gas engines, air compressors, a hot-air engine, a large volume fan, and a complete outfit of instruments used by the mechanical engineer for testing purposes. In the central heating station are several types of boilers equipped with different kinds of automatic stokers; there are also various steam and power pumps.

The shops of the College are in charge of this department; they consist of a wood shop, foundry, forge shop, and machine shop.

The shops are large, well lighted and attractive; they are all equipped with modern tools and furnish abundant facilities for giving the student the necessary practice in this line of work.

By special arrangement with the management of the Peoria and Eastern division of the C. C. C. & St. L. Ry., the power plant and shops located at Urbana have been opened to the Mechanical Engineering Department for visits of inspection and for experimental investigations. Ample opportunity is thus furnished for the study of ma-

chinery and processes in a shop operated under commercial conditions.

## RAILWAY MECHANICAL ENGINEERING

The railroad interests of the country have become so important as to demand separate recognition in the courses of those educational institutions which offer instruction in engineering.

Wishing to meet the demand for specialization in this important work the University has established an undergraduate course leading to the degree of B.S. in *Railway Engineering* and has also provided for graduate instruction and investigation leading to a second degree.

The course is devoted to the problems of motive power and machinery, including construction, design, and operation of locomotives and rolling stock, and tests of fuel, water supply, materials and supplies.

The department of civil engineering furnishes special instruction relating to construction and maintenance of way.

## EQUIPMENT

The shops and laboratories of the departments of mechanical and electrical engineering, applied mechanics, and chemistry furnish abundant laboratory facilities for work along these special lines.

The department possesses a considerable amount of class room and laboratory material, such as photographs, blue prints, and samples of manufactured specialties of value to the students of this work.

This department now owns, with the Illinois Central R. R., a fully equipped railway test car, No. 17. This car has been designed for locomotive and railway tests, and is used for no other purpose. It has been equipped with special reference to the following service:

1. Locomotive road tests for economy.
2. Locomotive capacity tests and measurements of train resistance.
3. Air brake service inspection.
4. Stationary plant tests at railway shops and water stations.

The department owns a continuous steam engine indicator, apparatus for determining the effect of scale deposits on the transfer of heat through the tubes, as well as considerable apparatus designed and built for various tests of locomotives in actual service.

The New York Air Brake Company has recently presented to the department a complete equipment of automatic air-brakes for engines, tender, and five cars.

The railway shops of the P. & E. Div. of the C.C.C. & St. L. Ry. at Urbana furnish exceptional opportunities for inspection of construction and repair work, and the assured aid that this department will receive from the management of these shops will be of great value to the student.

#### MECHANICS, THEORETICAL AND APPLIED

The courses in theoretical and applied mechanics are designed to meet the needs of students of the College of Engineering.

The laboratory of applied mechanics, comprising the materials laboratory and hydraulic laboratory, occupies a separate building, and its equipment is extensive and well suited for instruction and investigation. The materials laboratory is equipped with testing machines for tension, compression, flexure, and torsion, and for testing various kinds of structural materials. A testing machine having a capacity of 600,000 lb. and arranged to take large and bulky pieces in tension, compression and flexure is a recent acquisition. The hydraulic laboratory has a standpipe,

pumps, water motors and turbine, measuring pits, Venturi meters, weir conduits, meter rating conduit, orifice boxes, weir boxes, and apparatus for experimental work on flow of water through pipes, hose, and nozzles. The University water-works furnishes an abundant supply of water at pressures up to 100 lbs. per sq. in.

## MUNICIPAL AND SANITARY ENGINEERING

This course is designed for students desiring to make a specialty of city engineering work. It prepares for the varied duties of engineer of the department of public works of cities and includes instruction in modern methods of sanitation of cities.

### INSTRUCTION

The methods of training are intended to develop power to take up and solve new problems connected with municipal public works, as well as to design and to superintend the ordinary constructions. Surveying, structural materials, and structural design are taught as in the civil engineering course. Chemistry, botany, and bacteriology, so far as necessary to a comprehension of the questions involved in water supply and sewage disposal, are given.

### PHYSICS

#### LABORATORY AND EQUIPMENT

The physics department occupies, in Engineering Hall, a lecture room, with seats for 230 students; four adjoining rooms, for lecture apparatus and preparation; a general laboratory room 60 feet square, for first year experimental work; an adjoining apparatus room; six small laboratories on the first floor with masonry piers, a constant temperature room, a battery room, a work shop, and three offices for instructors. These rooms are supplied with gas, water, compressed air, vacuum pipes, poly-phase, alternating and direct electric currents, and other facilities for instruction and investigation in physics. The

laboratory contains a large collection of standard electrical and magnetic measurement apparatus from the best makers, together with various pieces and devices designed and constructed in the department. In optics there are spectrometers, Rowland diffraction gratings (plane and concave), a Fresnel optical bench, a complete photometer bench in a well-equipped dark room, a spectrum photometer, polarization apparatus, etc. The collection also includes apparatus for measurements of precision, such as balances, dividing engines, cathetometer, chronograph, Kater's pendulum, thermometers, etc. The work shop of the department is equipped with two power lathes, milling machine and a good collection of tools. The services of a mechanic give the department facilities for making apparatus from original designs, both for instruction and investigation. The following courses are suggested as electives for students in the College of Engineering whose time is not fully occupied with required work:

Art and Design 1; Astronomy 3 and 6; Chemistry 3a, 16, 34, 35; Economics 10, 13, 14, 16; Geology 13; Mathematics 10, 11, 14; Rhetoric 7, 10, 13; Physics 15, 16, 17; Law B; Library 12; Architecture 2, 3, 4, 13; Civil Engineering 4a, 5, 21, 22; Electrical Engineering 2, 3, 5, 6, 16, 26, 29; Mechanical Engineering 7, 10, 26, 27, 30, 31; Railway Engineering 9.

**COURSE OF STUDY**  
*Required for Degree of B.S. in Architecture*

First Year

| FIRST SEMESTER   |                    | SECOND SEMESTER  |                    |
|--|--------------------|--|--------------------|
| <i>Subject—</i>  | S. H. <sup>1</sup> | <i>Subject—</i>  | S. H. <sup>1</sup> |
| Engineering Drawing<br>(G. E. D. 1) <sup>2</sup> ..... | 4                  | Descriptive Geometry (G. E. D. 2) ..                                   | 4                  |
| Trigonometry (Math. 4).....                            | 2                  | Analytical Geometry (Math. 6).....                                     | 5                  |
| Advanced Algebra (Math. 2).....                        | 3                  | French 1, or German 3 or 5 or 6, or<br>English 27, or Rhetoric 11..... | 4                  |
| French 1, or German 1 or 4, or<br>English 1.....       |                    | Orders of Architecture (Arch. 8) ..                                    | 3                  |
| Free Hand Drawing (Arch. 20)...                        |                    | Military Drill (Mil. 2).....   | 1                  |
| Military Drill (Mil. 2).....                           | 1                  | Drill Regulations (Mil. 1).....  | 1                  |
| Gymnasium (Phys. Tr. 1, 3).....                        | 1                  | Gymnasium Practice (Phys. Tr. 1) ..                                    | $\frac{1}{2}$      |
|  |                    | Hygiene (Phys. Tr. 3).....   | $\frac{1}{2}$      |
| Total.....   | 18                 | Total.....   | 19                 |

Second Year

| FIRST SEMESTER                                |                  | SECOND SEMESTER                                   |                  |
|---|------------------|---|------------------|
| <i>Subject—</i>                               | S. H.            | <i>Subject—</i>                                   | S. H.            |
| Applied Mechanics (T. & A. M. 4) ..           | 4                | Strength of Materials<br>(T. & A. M. 5).....      | 4                |
| Wood Construction (Arch. 2).....              | 3                | Masonry and Metal Construction<br>(Arch. 3) ..... | 3                |
| Architectural Perspective<br>(Arch. 14) ..... | 2                | Requirements of Buildings<br>(Arch. 15).....      | 3                |
| Perspective Sketching (Arch. 35) ..           | 1                | Physics Lectures (Phys. 2a).....                  | 2                |
| Physics Lectures (Phys. 2a).....              | 2                | Physics Laboratory (Phys. 2b) ..                  | 2                |
| Physics Laboratory (Phys. 2b)...              | 2                | Rhetoric 1 .....                                  | 3                |
| Rhetoric 1.....                               | 3                | Monthly Problems (Arch. 9) ....                   | $\frac{1}{2}$    |
| Monthly Problems (Arch. 9).....               | $\frac{1}{2}$    | Military Drill (Mil. 2).....                      | 1                |
| Military Drill (Mil. 2).....                  | 1                | Total .....                                       | 18 $\frac{1}{2}$ |
| Total.....                                    | 18 $\frac{1}{2}$ |   |                  |

Third Year

| FIRST SEMESTER                                |                  | SECOND SEMESTER                              |                  |
|---|------------------|--|------------------|
| <i>Subject—</i>                               | S. H.            | <i>Subject—</i>                              | S. H.            |
| History of Architecture (Arch. 6) ..          | 4                | History of Architecture (Arch. 6) ..         | 4                |
| Architectural Seminary (Arch. 11) ..          | 1                | Architectural Seminary (Arch. 11) ..         | 1                |
| Sanitary Construction (Arch. 4).....          | 1                | Historic Ornament (Arch. 7) ....             | 2                |
| Architectural Composition<br>(Arch. 18) ..... | 3                | Graphic Statics and Roofs<br>(Arch. 5) ..... | 3                |
| Water Color Rendering (Arch. 32) ..           | 1                | Architectural Designing<br>(Arch. 17) .....  | 3                |
| Rendering Ornament (Arch. 33) ..              | 2                | Working Drawings (Arch. 10) ..               | 1                |
| Economics 2 .....                             | 2                | Residence Design (Arch. 16) .....            | 2                |
| Clay Modeling (A. and D. 8a) ....             | 2                | Monthly Problems (Arch. 9) ....              | $\frac{1}{2}$    |
| Monthly Problems (Arch. 9).....               | $\frac{1}{2}$    | Total .....                                  | 16 $\frac{1}{2}$ |
| Total .....                                   | 16 $\frac{1}{2}$ |  |                  |

Fourth Year

| FIRST SEMESTER  |                  | SECOND SEMESTER   |                  |
|---|------------------|---|------------------|
| <i>Subject—</i>   | S. H.            | <i>Subject—</i>   | S. H.            |
| Superintendence, Estimates, etc.<br>(Arch. 12) .....                | 3                | Design of Ornament (Arch. 25) ..                                    | 3                |
| Heating and Ventil. (Arch. 13) ..                                   | 4                | Mural Decoration (Arch. 28) ....                                    | 2                |
| Renaissance Design (Arch. 22) ..                                    | 3                | Surveying (Civ. Eng'g 10).....                                      | 2                |
| Medieval Design (Arch. 23).....                                     | 3                | Electric Lighting (El. Eng'g 9)...                                  | 1                |
| Mural Decoration (Arch. 28) ..                                      | 2                | Architectural Readings, French,<br>German, or English (Arch. 31) .. | 1                |
| Architectural Readings, French,<br>German, or English (Arch. 31) .. | 1                | Monthly Problems (Arch. 9) .....                                    | $\frac{1}{2}$    |
| Monthly Problems (Arch. 9).....                                     | $\frac{1}{2}$    | Thesis (Arch. 30) .....   | 6                |
| Thesis (Arch. 30) .....   |                  | Total .....   | 15 $\frac{1}{2}$ |
| Total .....   | 16 $\frac{1}{2}$ |   |                  |

<sup>1</sup>Semester hours. See p. 208.

<sup>2</sup>The numbers in parentheses refer to the courses in the General Description Courses, pp. 209ff.

## COURSE OF STUDY

*Required for Degree of B.S. in Architectural Engineering*

## First Year

| FIRST SEMESTER   |                    | SECOND SEMESTER   |       |
|--|--------------------|---|-------|
| <i>Subject—</i>  | S. H. <sup>1</sup> | <i>Subject—</i>   | S. H. |
| Engineering Drawing<br>(G. E. D. 1) <sup>2</sup> ..... | 4                  | Descriptive Geometry (G. E. D. 2) ..                                    | 4     |
| Trigonometry (Math. 4).....                            | 2                  | Analytical Geometry (Math. 6) ..  | 5     |
| Advanced Algebra (Math. 2) ....                        | 3                  | French 1, or German 3 or 5 or 6,<br>or English 27, or Rhetoric 11. .... | 4     |
| French 1, or German 1 or 4, or<br>English 1.....       | 4                  | Shop Practice (M. E. 1) .....   | 3     |
| Shop Practice <sup>3</sup> (M. E. 2).....              | 3                  | Military Drill (Mil. 2) ... ..  | 1     |
| Military Drill (Mil. 2).....                           | 1                  | Drill Regulations (Mil. 1) .. ..  | 1     |
| Gymnasium (Phys. Tr. 1, 3).....                        | 1                  | Gymnasium (Phys. Tr. 1, 3)....  | 1     |
| Total . . . . .  | 18                 | Total . . . . .   | 19    |

## Second Year

| FIRST SEMESTER                               |       | SECOND SEMESTER                                  |       |
|--|-------|--|-------|
| <i>Subject—</i>                              | S. H. | <i>Subject—</i>                                  | S. H. |
| Differential Calculus (Math. 7) ..           | 5     | Integral Calculus (Math. 9).....                 | 3     |
| Wood Construction (Arch. 2) ....             | 3     | Masonry and Metal Construction<br>(Arch. 3)..... | 3     |
| Architectural Perspective<br>(Arch. 14)..... | 2     | Requirements of Buildings<br>(Arch. 15) .....    | 3     |
| Physic Lectures (Phys. 1, 3).....            | 3     | Physics Lectures (Phys.) .....                   | 2     |
| Physic Laboratory (Phys. 1, 3) ..            | 2     | Physics Laboratory (Phy. .).....                 | 2     |
| Rhetoric 1.....                              | 3     | Analytical Mech. (T. & A. M. 7) ..               | 3     |
| Military Drill (Mil. 2).....                 | 1     | Rhetoric 1 .....                                 | 3     |
| Total.....                                   | 19    | Military Drill (Mil. 2) .....                    | 1     |
|  |       | Total .....                                      | 20    |

## Third Year

| FIRST SEMESTER                                 |       | SECOND SEMESTER                               |       |
|--|-------|---|-------|
| <i>Subjects—</i>                               | S. H. | <i>Subject—</i>                               | S. H. |
| Analytical Mechanics<br>(T. & A. M. 8).....    | 2½    | Hydraulics (T. & A. M. 10) .....              | 3     |
| Resistance of Materials<br>(T. & A. M. 9)..... | 3½    | Graphic Statics and Roofs<br>(Arch. 5) .....  | 3     |
| Eng'g Materials (T. & A. M. 6) ...             | 1     | Working Drawings (Arch. 10) ..                | 1     |
| History of Architecture (Arch. 6) ..           | 4     | History of Architecture (Arch. 6) ..          | 4     |
| Architectural Seminary (Arch. 11) ..           | 1     | Steam Engines and Boilers<br>(M. E. 11) ..... | 3     |
| Sanitary Construction (Arch. 4) ..             | 1     | Engineering Chemistry (Chem. 16) ..           | 3     |
| Chemistry 1 .....                              | 4     | Total .....                                   | 17    |
| Total.....                                     | 17    |   |       |

## Fourth Year

| FIRST SEMESTER  |       | SECOND SEMESTER  |       |
|---|-------|--|-------|
| <i>Subject—</i>   | S. H. | <i>Subject—</i>  | S. H. |
| Architectural Engineering<br>(Arch. 19) .. ..                     | 3     | Architectural Engineering<br>(Arch. 19) .....            | 3     |
| Bridge Analysis (C. E. 12).....                                   | 2     | Bridge Design (C. E. 14a) .....                          | 3     |
| Bridge Details (C. E. 13) .....                                   | 3     | Surveying (C. E. 10).....                                | 2     |
| Superintendence, Estimates and<br>Specifications (Arch. 12) ..... | 3     | Electric Lighting (E. E. 9) .....                        | 1     |
| Heating and Ventilation<br>(Arch. 13) . . . . .                   | 4     | Architectural Engineering Sem-<br>inary (Arch. 34) ..... | 2     |
| Architectural Readings (Arch. 31) ..                              | 1     | Architectural Readings (Arch. 31) ..                     | 1     |
| Thesis (Arch. 30).....  | —     | Thesis (Arch. 30).....                                   | 4     |
| Total .....   | 16    | Total .....  | 16    |

<sup>1</sup>Semester hours. See p. 208.<sup>2</sup>The numbers in parentheses refer to the courses in the General Description of Courses, pp. 209ff.<sup>3</sup>Free Hand Drawing (Arch. 20), first semester, and Orders of Architecture (Arch. 8) second semester.

## COURSE OF STUDY

*Required for the Degree of B.S. in Civil Engineering*

## First Year

| FIRST SEMESTER   |                    | SECOND SEMESTER  |                    |
|--|--------------------|--|--------------------|
| <i>Subject—</i>  | S. H. <sup>1</sup> | <i>Subject—</i>  | S. H. <sup>1</sup> |
| General Engineering Drawing<br>(G. E. D. 1) <sup>2</sup> ..... | 4                  | Descriptive Geometry (G. E. D. 2) ..                                 | 4                  |
| Trigonometry (Math. 4) .....                                   | 2                  | Analytical Geometry (Math. 6) ..                                     | 5                  |
| Advanced Algebra (Math. 2) ....                                | 3                  | French 1, or German 3 or 5 or 6,<br>or English 27, or Rhetoric 11. 4 |                    |
| French 1, or German 1 or 4, or<br>English 1.....               | 4                  | Shop Practice (M. E. 1).....   | 3                  |
| Shop Practice (M. E. 1).....                                   | 3                  | Military Drill (Mil. 2).....   | 1                  |
| Military Drill (Mil. 2) .....                                  | 1                  | Drill Regulations (Mil. 1).....                                      | 1                  |
| Gymnasium (Phys. Tr. 1, 3) .. .                                | 1                  | Gymnasium (Phys. Tr. 1, 3) .....                                     | 1                  |
| Total .....  | 18                 | Total.....   | 19                 |

## Second Year

| FIRST SEMESTER                     |       | SECOND SEMESTER                  |       |
|------------------------------------|-------|----------------------------------|-------|
| <i>Subject—</i>                    | S. H. | <i>Subject—</i>                  | S. H. |
| Surveying (C. E. 21).....          | 5     | Topograph. Survey. (C. E. 22) .. | 4     |
| Differential Calculus (Math. 7) .. | 5     | Railroad Curves (C. E. 23) ..... | 1     |
| Physics Lectures (Phys. 1) .....   | 3     | Integral Calculus (Math. 9)..... | 3     |
| Physics Laboratory (Phys. 3) ....  | 2     | Physics Lectures (Phys. 1) ..... | 2     |
| Rhetoric 1 .....                   | 3     | Physics Laboratory (Phys. 3) ... | 2     |
| Military Drill (Mil. 2) .....      | 1     | Rhetoric 1 .....                 | 3     |
| Total.....                         | 19    | Anal. Mechan. (T. & A. M. 7).... | 3     |
|                                    |       | Military Drill (Mil. 2).....     | 1     |
|                                    |       | Total .....                      | 19    |

## Third Year

| FIRST SEMESTER   |       | SECOND SEMESTER                              |       |
|--|-------|--|-------|
| <i>Subject—</i>  | S. H. | <i>Subject—</i>                              | S. H. |
| Railroad Location, Construction<br>and Maintenance (C. E. 4).... | 5     | Railroad Structures (C. E. 19) ...           | 1     |
| Analytical Mechanics<br>(T. & A. M. 8).....                      | 2½    | Graphic Statics (C. E. 20) .....             | 2     |
| Resistance of Materials<br>(T. & A. M. 9) .....                  | 3½    | Hydraulics (T. & A. M. 10).....              | 3     |
| Chemistry 1 <sup>2</sup> .....                                   | 4     | Road Engineering (C. E. 1).....              | 2     |
| Engineering Materials<br>(T. & A. M. 6) .....                    | 1     | Astronomy 3 and 6, or Geology 13             | 5     |
| Total .....  | 16    | Steam Engines and Boilers<br>(M. E. 11)..... | 3     |
|  |       | Total .....                                  | 16    |

## Fourth Year

| FIRST SEMESTER                    |       | SECOND SEMESTER  |       |
|-----------------------------------|-------|--|-------|
| <i>Subject—</i>                   | S. H. | <i>Subject—</i>  | S. H. |
| Masonry Construction (C. E. 5) .. | 5     | Bridge Design (C. E. 14) .....                                 | 5     |
| Bridge Analysis (C. E. 12) ..     | 2     | Engineering Contracts and Speci-<br>fications (C. E. 16) ..... | 2     |
| Bridge Details (C. E. 13).....    | 3     | Seminary (C. E. 25) .....                                      | 1     |
| Metal Structures (C. E. 24) ..... | 1     | Tunneling (C. E. 18) .....                                     | 1     |
| Water Supply Eng'g (M. & S. E. 2) | 4     | Sewerage (M. & S. E. 3) .....                                  | 3     |
| Thesis (C. E. 30) .....           | 1     | Economics 2 .....  | 2     |
| Total .....                       | 16    | Thesis (C. E. 30).....   | 2     |
|                                   |       | Total .....  | 16    |

<sup>1</sup>Semester hours. See p. 203.<sup>2</sup>The numbers in parentheses refer to courses in the General Description of Courses, pp. 209ff.

## COURSE OF STUDY

*Required for the Degree of B.S. in Electrical Engineering*

## First Year

| FIRST SEMESTER                                    |                    | SECOND SEMESTER   |                    |
|---|--------------------|---|--------------------|
| <i>Subject—</i>                                   | S. H. <sup>1</sup> | <i>Subject—</i>   | S. H. <sup>1</sup> |
| Engineering Drawing (G.E.D. 1) <sup>2</sup>       | 4                  | Descriptive Geometry (G. E. D. 2)                                 | 4                  |
| Trigonometry (Math. 2) .....                      | 2                  | Analytical Geometry (Math. 6) ..                                  | 5                  |
| Advanced Algebra (Math. 4) .....                  | 3                  | French 1, or German 3 or 5 or 6,<br>or English 27, or Rhetoric 11 | 4                  |
| French 1, or German 1 or 4, or<br>English 1 ..... | 4                  | Shop Practice (M. E. 1) .....                                     | 3                  |
| Shop Practice (M. E. 1) .....                     | 3                  | Military Drill (Mil. 2) .....                                     | 1                  |
| Military Drill (Mil. 2) .....                     | 1                  | Drill Regulations (Mil. 1) .....                                  | 1                  |
| Gymnasium (Phys. Tr. 1, 3) .....                  | 1                  | Gymnasium (Phys. Tr. 1, 3) .....                                  | 1                  |
| Total .....                                       | 18                 | Total .....   | 19                 |

## Second Year

| FIRST SEMESTER                     |       | SECOND SEMESTER                              |       |
|------------------------------------|-------|--|-------|
| <i>Subject—</i>                    | S. H. | <i>Subject</i>                               | S. H. |
| Differential Calculus (Math. 7) .. | 5     | Integral Calculus (Math. 9) .....            | 3     |
| Machine Shop (M. E. 2) .....       | 2½    | Machine Shop (M. E. 2) .....                 | 2½    |
| Machine Design (M. E. 4) .....     | 2½    | Machine Design (M. E. 4) .....               | 2½    |
| Physics Lectures (Phys. 1) .....   | 3     | Physics Lectures (Phys. 1) .....             | 2     |
| Physics Laboratory (Phys. 3) ...   | 2     | Physics Laboratory (Phys. 3) ....            | 2     |
| Rhetoric 1 .....                   | 3     | Rhetoric 1 .....                             | 3     |
| Military Drill (Mil. 2) .....      | 2     | Analytical Mechanics<br>(T. & A. M. 7) ..... | 3     |
| Total. . . . .                     | 19    | Military Drill (Mil. 2) .....                | 2     |
|                                    |       | Total .....                                  | 19    |

## Third Year

| FIRST SEMESTER                                  |       | SECOND SEMESTER                                |       |
|---|-------|--|-------|
| <i>Subject—</i>                                 | S. H. | <i>Subject—</i>                                | S. H. |
| Dynamo-Elec. Machinery (E. E. 16)               | 3     | Dynamo-Elec. Machinery (E. E. 16)              | 3     |
| Elec. and Mag. Measurements<br>(Phys. 4) .....  | 4     | Elec. Eng. Laboratory (E. E. 22) ..            | 2     |
| Analytical Mechanics<br>(T. & A. M. 8) .....    | 2½    | Hydraulics (T. & A. M. 10) .....               | 3     |
| Resistance of Materials<br>(T. & A. M. 9) ..... | 3½    | Elec. and Mag. Measurements<br>(Phys. 4) ..... | 4     |
| Engineering Materials<br>(T. & A. M. 6) ..      | 1     | Surveying (E. E. 10.) .....                    | 2     |
| Chemistry 1 <sup>3</sup> ..                     | 4     | Steam Engineering (M. E. 11) ....              | 3     |
| Total. ....                                     | 18    | Total .....                                    | 17    |

## Fourth Year

| FIRST SEMESTER                           |       | SECOND SEMESTER                                     |       |
|--|-------|---|-------|
| <i>Subject—</i>                          | S. H. | <i>Subject—</i>                                     | S. H. |
| Alternating Currents (E. E. 5) ...       | 3     | Adv. Alternating Currents<br>(E. E. 14) .....       | 2     |
| Telegraphy and Telephony<br>(E. E. 4) .. | 2     | Power Plants (E. E. 11) .....                       | 1     |
| Electro-Chemistry (E. E. 12) .....       | 2     | Traction (E. E. 17) .....                           | 2     |
| Electrical Distribution (E. E. 15) ..    | 3     | Elec. Eng. Laboratory (E. E. 24) ..                 | 2     |
| Elec. Eng. Laboratory (E. E. 23) ..      | 1½    | Electrical Design (E. E. 33) .....                  | 1     |
| Elec. Eng. Laboratory (E. E. 27) ..      | 1½    | Seminary (E. E. 13) .....                           | 1     |
| Electrical Design (E. E. 32) .....       | 2     | Estimates, Specifications, etc.<br>(M. E. 10) ..... | 1     |
| Seminary (E. E. 13) .....                | 1     | Mech. Eng. Laboratory (M. E. 13) ..                 | 2     |
| Economics 2 .....                        | 2     | Economics 16a .....                                 | 2     |
| Total .....                              | 18    | Thesis (E. E. 35) ..                                | 3     |
|  |       | Total .....   | 17    |

<sup>1</sup>Semester hours. See p. 208.<sup>2</sup>The numbers in parentheses refer to courses in the General Description of Courses, pp. 209ff.<sup>3</sup>Students who have offered the equivalent of chemistry 1 for admission must arrange for a substitute.

## COURSE OF STUDY

*Required for Degree of B.S. in Mechanical Engineering*

## First Year

| FIRST SEMESTER   |                    | SECOND SEMESTER   |                    |
|--|--------------------|---|--------------------|
| <i>Subject—</i>  | S. H. <sup>1</sup> | <i>Subject—</i>   | S. H. <sup>1</sup> |
| General Engineering Drawing<br>(G. E. D. 1) <sup>2</sup> ..... | 4                  | Descriptive Geometry (G. E. D. 2) ..                              | 4                  |
| Trigonometry (Math. 4).....                                    | 2                  | Analytical Geometry (Math. 6) ..                                  | 5                  |
| Advanced Algebra (Math. 2) . . .                               | 3                  | French 1, or German 3 or 5 or 6,<br>or English 27, or Rhetoric 11 | 4                  |
| French 1, or German 1 or 4, or<br>English 1.....               | 4                  | Shop Practice (M. E. 1).....                                      | 3                  |
| Shop Practice (M. E. 1) .....                                  | 3                  | Military Drill (Mil. 2).....                                      | 1                  |
| Military Drill (Mil. 2).....                                   | 1                  | Drill Regulations (Mil. 1).....                                   | 1                  |
| Gymnasium (Phys. Tr. 1, 3) .....                               | 1                  | Gymnasium (Phys. Tr. 1, 3) .....                                  | 1                  |
| Total .....  | 18                 | Total . . . . .   | 19                 |

## Second Year

| FIRST SEMESTER                     |       | SECOND SEMESTER                    |       |
|------------------------------------|-------|------------------------------------|-------|
| <i>Subject—</i>                    | S. H. | <i>Subject—</i>                    | S. H. |
| Differential Calculus (Math. 7)... | 5     | Integral Calculus (Math. 9) ..     | 3     |
| Machine Shop (M. E. 2) .....       | 2½    | Machine Shop (M. E. 2) .....       | 2½    |
| Machine Design (M. E. 4).....      | 2½    | Machine Design (M. E. 4).....      | 2½    |
| Physics Lectures (Phys. 1).....    | 3     | Physics Lectures (Phys. 1).....    | 2     |
| Physics Laboratory (Phys. 3)....   | 2     | Physics Laboratory (Phys. 3)....   | 2     |
| Rhetoric 1 .....                   | 3     | Rhetoric 1 .....                   | 3     |
| Military Drill (Mil. 2) ....       | 1     | Analytical Mech. (T. & A. M. 7) .. | 3     |
| Total .....                        | 19    | Military Drill (Mil. 2).....       | 1     |
|                                    |       | Total .....                        | 19    |

## Third Year

| FIRST SEMESTER                                  |       | SECOND SEMESTER   |       |
|---|-------|---|-------|
| <i>Subject—</i>                                 | S. H. | <i>Subject—</i>   | S. H. |
| Mechanism (M. E. 5) .....                       | 3     | Steam Engineering (M. E. 23) ...                        | 4     |
| Graphic Statics of Mechanism<br>(M. E. 18)..... | 2     | Seminary (M. E. 29) .....                               | 1     |
| Seminary (M. E. 29) .....                       | 1     | Power Measurement (M. E. 3)....                         | 2     |
| Analytical Mechanics<br>(T. & A. M. 8) .....    | 2½    | Graphic Kinetics (M. E. 25) or<br>Engineering Chemistry |       |
| Resistance of Materials<br>(T. & A. M. 9) ..... | 3½    | (Chem. 16) .....  | 3     |
| Eng'g. Materials (T. & A. M. 6). 1              |       | Surveying (C. E. 10).....                               | 2     |
| Chemistry 1 <sup>2</sup> .....                  | 4     | Electrical Engineering (E. E. 1). 2                     |       |
| Total .....                                     | 17    | Hydraulics (T. & A. M. 10).....                         | 3     |
|   |       | Total .....   | 17    |

## Fourth Year

| FIRST SEMESTER  |       | SECOND SEMESTER                                      |       |
|---|-------|--|-------|
| <i>Subject—</i>   | S. H. | <i>Subject—</i>                                      | S. H. |
| Thermodynamics (M. E. 7) ....                           | 3     | Heat Engines (M. E. 6).....                          | 2     |
| Mechanics of Machinery (M. E. 8)                        | 2     | Mechanics of Machinery (M. E. 8)                     | 3     |
| Advanced Machine Design<br>(M. E. 9) .....              | 3     | Advanced Machine Design<br>(M. E. 9).....            | 3     |
| Advanced Mechanical Labora-<br>tory (M. E. 12) .....    | 3     | Advanced Mechanical Labora-<br>tory (M. E. 12) ..... | 1     |
| Seminary (M. E. 19) .....                               | 1     | Seminary (M. E. 19) .....                            | 1     |
| Electrical Engineering Labora-<br>tory (E. E. 21) ..... | 2     | Estimates (M. E. 10).....                            | 1     |
| Economics 2 ...   | 2     | Economics 16a.....                                   | 2     |
| Total .....   | 16    | Thesis (M. E. 33).....                               | 3     |
|   |       | Total .....  | 16    |

<sup>1</sup>Semester hours. See p 208.<sup>2</sup>The numbers in parentheses refer to the courses of the General Description of Courses, pp. 209ff.

## COURSE OF STUDY

*Required for the Degree of B.S. in Railway Engineering*

## First Year

| FIRST SEMESTER   |                    | SECOND SEMESTER  |                    |
|--|--------------------|--|--------------------|
| <i>Subject—</i>  | S. H. <sup>1</sup> | <i>Subject—</i>  | S. H. <sup>1</sup> |
| Engineering Drawing<br>(G. E. D. 1) <sup>2</sup> ..... | 4                  | Descriptive Geometry (G. E. D. 2) ..                               | 4                  |
| Trigonometry (Math. 4) ....                            | 2                  | Analytical Geometry (Math. 6) ..                                   | 5                  |
| Advanced Algebra (Math. 2) ....                        | 3                  | French 1, or German 3 or 5 or 6,<br>or English 27, or Rhetoric 11. | 4                  |
| French 1, or German 1 or 4, or<br>English 1.....       | 4                  | Shop Practice (M. E. 1).....                                       | 3                  |
| Shop Practice (M. E. 1).....                           | 3                  | Military Drill (Mil. 2) ..   | 1                  |
| Military Drill (Mil. 2).....                           | 1                  | Drill Regulations (Mil. 1) ..                                      | 1                  |
| Gymnasium (Phys. Tr. 1, 3).....                        | 1                  | Gymnasium (Phys. Tr. 1, 3) .....                                   | 1                  |
| Total .....  | 18                 | Total .....  | 19                 |

## Second Year

| FIRST SEMESTER                     |       | SECOND SEMESTER                    |       |
|------------------------------------|-------|------------------------------------|-------|
| <i>Subject—</i>                    | S. H. | <i>Subject—</i>                    | S. H. |
| Machine Shop (M. E. 2) .....       | 2½    | Machine Shop (M. E. 2).....        | 2½    |
| Machine Design (M. E. 4).....      | 2½    | Machine Design (M. E. 4).....      | 2½    |
| Differential Calculus (Math. 7) .. | 5     | Integral Calculus (Math. 9) .....  | 3     |
| Physics Lectures (Phys. 1).....    | 3     | Physics Lectures (Phys. 1).....    | 2     |
| Physics Laboratory (Phys. 3) ...   | 2     | Physics Laboratory (Phys. 3)....   | 2     |
| Rhetoric 1.....                    | 3     | Rhetoric 1.....                    | 3     |
| Military Drill (Mil. 2).....       | 1     | Analy. Mechanics (T. & A. M. 7) .. | 3     |
| Total .....                        | 19    | Military Drill (Mil. 2).....       | 1     |
|                                    |       | Total .....                        | 19    |

## Third Year

| FIRST SEMESTER                                 |       | SECOND SEMESTER  |       |
|--|-------|--|-------|
| <i>Subject—</i>                                | S. H. | <i>Subject—</i>  | S. H. |
| Mechanism (M. E. 5).....                       | 3     | Steam Engineering (M. E. 23)....   | 4     |
| Graphic Statics (M. E. 18)....                 | 2     | Power Measurement (M. E. 3) ...  | 2     |
| Seminary (M. E. 29) .....                      | 1     | Seminary (M. E. 29) .....  | 1     |
| Resistance of Materials<br>(T. & A. M. 8)..... | 2½    | Graphic Kinetics (M. E. 25) or<br>Engineering Chemistry<br>(Chem. 16)..... | 3     |
| Resistance of Materials<br>(T. & A. M. 9)..... | 3½    | Surveying (C. E. 10).....  | 2     |
| Eng'g Materials (T. & A. M. 6) .               | 1     | Electrical Engineering (E. E. 1)..<  | 2     |
| Chemistry 1 <sup>2</sup> ..                    | 4     | Hydraulics (T. & A. M. 10).....  | 3     |
| Total .....                                    | 17    | Total .....  | 17    |

## Fourth Year

| FIRST SEMESTER                               |       | SECOND SEMESTER                      |       |
|--|-------|--------------------------------------|-------|
| <i>Subject—</i>                              | S. H. | <i>Subject—</i>                      | S. H. |
| Thermodynamics (M. E. 7) ....                | 3     | Mechanics of Machinery (M. E. 8) ..  | 3     |
| Locomotive Engines (Ry. E. 1) ..             | 2     | Compr. Air in Ry. Serv (Ry. E. 5) .. | 1     |
| Locomotive Engine Design<br>(Ry. E. 2) ..... | 3     | Railway Estimates (Ry. E. 6)....     | 1     |
| Shop Systems (Ry. E. 3) .....                | 1     | Advanced Designing (Ry. E. 7)..<     | 3     |
| Locomotive Road Tests (Ry. E. 4) ..          | 3     | Dynamometer Car Tests (Ry. E. 8) ..  | 1     |
| Economics 2.....                             | 2     | Economics 16a.....                   | 2     |
| Seminary (M. E. 19).....                     | 1     | Seminary (M. E. 19).....             | 1     |
| Total .....                                  | 16    | Thesis (M. E. 33).....               | 3     |
|  |       | Total .....                          | 15    |

<sup>1</sup>Semester hours. See p 208.<sup>2</sup>The numbers in parentheses refer to courses in the General Description of Courses, pp 209ff.

## COURSE OF STUDY

*Required for the Degree of B.S. in Municipal and Sanitary Engineering*

## First Year

| FIRST SEMESTER                                   |                    | SECOND SEMESTER  |                    |
|--|--------------------|--|--------------------|
| <i>Subject—</i>                                  | S. H. <sup>1</sup> | <i>Subject—</i>  | S. H. <sup>1</sup> |
| Gen'l Eng'g Draw. (G. E. D. 1) <sup>2</sup> ..   | 4                  | Descriptive Geometry (G. E. D. 2) ..                               | 4                  |
| Trigonometry (Math. 4).....                      | 2                  | Analytical Geometry (Math. 6) ..                                   | 5                  |
| Advanced Algebra (Math. 2).....                  | 3                  | French 1, or German 3 or 5 or 6,<br>or English 27, or Rhetoric 11. | 4                  |
| French 1, or German 1 or 4, or<br>English 1..... | 4                  | Shop Practice (M. E. 1).....                                       | 3                  |
| Shop Practice (M. E. 1) .....                    | 3                  | Military Drill (Mil. 2) .....                                      | 1                  |
| Military Drill (Mil. 2) .....                    | 1                  | Drill Regulations (Mil. 1) .. ..                                   | 1                  |
| Gymnasium (Phys. Tr. 1, 3) .....                 | 1                  | Gymnasium (Phys. Tr. 1, 3).....                                    | 1                  |
| Total .....                                      | 18                 | Total .....  | 19                 |

## Second Year

| FIRST SEMESTER                     |       | SECOND SEMESTER                    |       |
|------------------------------------|-------|------------------------------------|-------|
| <i>Subject—</i>                    | S. H. | <i>Subject—</i>                    | S. H. |
| Surveying (C. E. 21) ..            | 5     | Typograph. Surveying (C. E. 22) .. | 4     |
| Differential Calculus (Math. 7) .. | 5     | Railroad Curves (C. E. 23).....    | 1     |
| Physics Lectures (Phys. 1).....    | 3     | Integral Calculus (Math. 9) ..     | 3     |
| Physics Laboratory (Phys. 3)....   | 2     | Physics Lectures (Phys. 1).....    | 2     |
| Rhetoric 1.....                    | 3     | Physics Laboratory (Phys. 3) ...   | 2     |
| Military Drill (Mil. 2).....       | 1     | Rhetoric 1... ..                   | 3     |
| Total.. ..                         | 19    | Analyt. Mech. (T. & A. M. 7) ....  | 3     |
|                                    |       | Military Drill (Mil. 2).....       | 1     |
|                                    |       | Total.....                         | 19    |

## Third Year

| FIRST SEMESTER  |       | SECOND SEMESTER                                |       |
|---|-------|--|-------|
| <i>Subject—</i>   | S. H. | <i>Subject—</i>                                | S. H. |
| Railroad Location and Construc-<br>tion (C. E. 4a)..... | 3     | Hydraulics (T. & A. M. 16).....                | 3     |
| Analytical Mechanics<br>(T. & A. M. 8).....             | 2½    | Road Engineering (C. E. 1).....                | 2     |
| Resist. of Materials (T. & A. M. 9) 3½                  |       | Graphic Statics (C. E. 2) .....                | 2     |
| Eng'g Materials (T. & A. M. 6) ..                       | 1     | Steam Engines and Boilers<br>(M. E. 11) ... .. | 3     |
| Bacteriology (M. & S. E. 5a).....                       | 2     | Chemistry 3b, 10b .....                        | 5     |
| Chemistry 1 .....                                       | 4     | Electrical Engineering 1.....                  | 2     |
| Total.....  | 16    | Total.....                                     | 17    |

## Fourth Year

| FIRST SEMESTER  |       | SECOND SEMESTER  |       |
|---|-------|--|-------|
| <i>Subject—</i>   | S. H. | <i>Subject—</i>  | S. H. |
| Water Supply Eng'g (M. & S. E. 2) ..  | 4     | Sewerage (M. & S. E. 3) .....  | 3     |
| Water Purification, Sewage Dis-<br>posal, and General Sanita-<br>tion (M. & S. E. 6a) ..... | 2     | Water Purification, Sewage Dis-<br>posal, and General Sanita-<br>tion (M. & S. E. 6b)..... | 3     |
| Masonry Construction (C. E. 5) ..   | 5     | Bridge Design (C. E. 14a).....   | 3     |
| Bridge Analysis (C. E. 12).....   | 2     | Engineering Contracts and Spec-<br>ifications (C. E. 16).....                              | 2     |
| Bridge Details (C. E. 13) ..  | 3     | Mechanical Engineering Labora-<br>tory (M. E. 13) .....                                    | 2     |
| Electrical Engineering 28.....  | 1     | Economics 2.....   | 2     |
| Total... ..   | 17    | Thesis.....  | 2     |
|   |       | Total .....  | 17    |

<sup>1</sup>Semester hours. See p. 208.<sup>2</sup>The numbers in parentheses refer to the courses in the General Description of Courses, pp. 209ff.

# COLLEGE OF AGRICULTURE

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## FACULTY

EDMUND J. JAMES, PH.D., LL.D., PRESIDENT.

E. DAVENPORT, M.AGR., DEAN.

### *In Agronomy—*

C. G. HOPKINS, PH.D., Professor.

L. H. SMITH, M.S., Assistant Professor, Plant Breeding.

J. G. MOSIER, B.S., Assistant Professor, Soil Physics.

J. H. PETTIT, PH.B., Instructor, Soil Fertility.

F. R. CRANE, B.S., Instructor, Farm Mechanics.

A. N. HUME, M.S., Instructor, Crop Production.

C. WILLIS, S.C.B., Instructor, Soil Physics.

O. D. CENTER, B.S., Assistant, Crop Production.

### *In Animal Husbandry—*

H. W. MUMFORD, B.S., Professor.

L. D. HALL, B.S., Instructor.

WILLIAM DIETRICH, B.S.A., Instructor, Swine Husbandry.

R. C. OBRECHT, B.S.A., Instructor, Horses.

E. S. GOOD, B.S., Instructor.

### *In Dairy Husbandry—*

W. J. FRASER, M.S., Professor.

C. E. LEE, B.S., Instructor, Dairy Manufactures.

J. M. TRUEMAN, B.S.A., Instructor.

C. C. HAYDEN, B.S.A., Instructor.

H. A. HOPPER, B.S.A., Instructor.

### *In Horticulture—*

J. C. BLAIR, Professor of Pomology.

J. W. LLOYD, M.S.A., Assistant Professor, Olericulture.

C. S. CRANDALL, M.S., Assistant Professor, Pomology.

A. P. WYMAN, B.S.A., Assistant Professor, Landscape Gardening.

A. C. BEAL, B.S., M.S.A., Instructor, Floriculture.

### *In Thremmatology—*

EUGENE DAVENPORT, M. AGR. Professor.

*In Veterinary Science—*

DONALD McINTOSH, V.S., Professor.

*In Household Science—*

ISABEL BEVIER, PH.M., Professor.

SUSANNAH USHER, B.S., Instructor, Dietetics.

MYRN BROCKETT, B.L., Instructor.

A. R. VANMETER, A.B., Assistant.

CHARLOTTE M. GIBBS, A.B., Assistant, Textiles.

*Agricultural College Extension—*

FRED H. RANKIN, Superintendent.

The College of Agriculture offers an education designed to fit for the business of farming, and at the same time to furnish a means of culture. This education is, therefore, partly technical and partly cultural. Its end is the training of students to be not only successful farmers, but good citizens and successful men.

Of the courses leading to graduation in the College of Agriculture, the technical portion constitutes about one-half of the entire work of the student, the sciences most nearly related to agriculture about one-fourth; and the remaining portion is made up of language, literature, and electives chosen from any subjects taught in the University.

The College also offers, through the department of household science, a variety of courses especially treating of the affairs of the home.

This college offers two courses leading to graduation with the degree of Bachelor of Science:

1. Agricultural Course.
2. General Course in Household Science.

## ADMISSION

Applicants for admission to the freshman class of the University in the College of Agriculture must satisfy the requirements of paragraphs 1 to 7, on page 75.

Admission may be obtained, as in the case of the other Colleges and Schools, by presenting a certificate from a

fully accredited high school, as described on page 75; by examination, or by transfer of credits from some other college or university.<sup>1</sup>

The requirements for admission are the same as for admission to the College of Science, as described on page 96.

For admission as special students see below and page 85; for admission by transfer of credits, and to advanced standing, see page 85.

### SPECIAL STUDENTS

Until students have announced their intention to work for a degree and have satisfied all entrance requirements, they are known as special students. Any young man sixteen years old or over, and any young woman eighteen years old or over, may enter as a special student without reference to graduation, electing such work as he is prepared for, and remain as long as the work done is satisfactory. Any such student, however, who is deficient in the correct use of English is required to take that subject in the University or the Academy, according to the amount of his deficiency.

The person who remains but a short time will therefore follow but a few lines of work. If his preparation is deficient he will be confined to those subjects that require little or no previous preparation. He will also be confined to an amount which he can do thoroughly well, and will thus perform substantially the same grade of work as regular students. As the course is largely elective, credit is given for what is actually achieved.

This plan affords the student with a limited amount of time all the advantages of a short course and at the same time secures a good grade of work in the subjects studied.

### METHODS OF INSTRUCTION

The student of agriculture is brought into close practical contact with his subject. He takes levels, lays tile,

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<sup>1</sup>See General Description of Courses beginning on page 208.

tests the draft of tools, traces root systems of corn and other crops, tests germination of seeds, determines the fertility in soils and the effects of different crops and of different rotations upon soil fertility. He does budding, grafting, trimming, and spraying, and works out problems in landscape gardening. He tests milk, operates separators, makes and judges butter and cheese. He studies cuts of meat and samples of wool, judges a great variety of animals, and has practice in diagnosing and treating their diseases.

#### EQUIPMENT

The College keeps on deposit several thousand dollars' worth of plows, cultivators, planters, cutters, shellers, grinders, mowers, binders, engines etc., received from the manufacturers. It has extensive collections of agricultural plants and seeds and their products. Laboratories are well equipped with apparatus and appliances for the study of manures, fertilizers, fertility of soils, soil physics, soil bacteriology, germination of seeds, corn judging, etc. The grounds of the University and the fields and orchards of the Experiment Station are always available for illustration in class work. An illustrative series of colored casts of fruit and enlarged models of fruits and flowers, collections of seeds and woods, cabinets of beneficial and noxious insects, with specimens of their work, photographs, maps, charts, drawings, lantern slides,—all afford valuable material for study and illustration.

Specimens of Morgan horses; Shorthorn, Hereford, Aberdeen-Angus, Jersey, Ayrshire, and Holstein-Friesian cattle; Shropshire, Merino, and Dorset sheep, and Berkshire swine, afford material for judging. This material, moreover, is largely increased by loans from prominent herds. In the dairy department is a complete outfit for milk-testing and for cream separation and butter and cheese making. The department of veterinary science

owns a collection illustrating *materia medica*, a collection of pathological specimens illustrating special abnormal bony development, and a *papier-maché* model of a horse, capable of dissection, and showing every important detail of structure. In addition are levels, lanterns, microscopes, and cameras, an extensive list of agricultural journals, a complete file of experiment station bulletins from all the states, and an excellent assortment of standard reference books, including nearly all the pedigree registers published.

### REQUIREMENTS FOR GRADUATION

The conditions of graduation are the same as for the other colleges of the University—130 credit hours, including certain prescribed subjects as explained in the following pages:

### AGRICULTURE COURSE

This course is designed to fit young men for the business of farming and the relations of country life. Following are the conditions to be observed by prospective graduates:

#### PREScribed SUBJECTS<sup>1</sup>

Agronomy 6 or 7, 9, 12; 12½ hours.

Animal Husbandry 7; 2½ hours.<sup>2</sup>

Botany 12; 1 hour.<sup>3</sup>

Botany or Zoölogy; 10 hours.<sup>4</sup>

Chemistry 1, 3b, 4, 13a; 15 hours.<sup>5</sup>

Dairy Husbandry 1; 3 hours.<sup>6</sup>

Economics 2; 2 hours.

Entomology 4; 2½ hours.

Geology 11; 1 hour.

Horticulture 1, 10; 8 hours.

<sup>1</sup>Students not offering six credits in foreign language for admission will take two years of foreign language in the University as a condition of graduation.

<sup>2</sup>See thremmatology and elective list A.

<sup>3</sup>Lectures and demonstrations upon bacteria and allied organisms.

<sup>4</sup>Not including the botany and entomology specified in this list.

<sup>5</sup>Chemistry 3 may be taken in lieu of Chemistry 3b and 4.

<sup>6</sup>Not required of students specializing in dairy husbandry.

Household Science 8; 1 hour.  
 Library Science 12; 1 hour.  
 Military 1, 2; 5 hours.  
 Physical Training 1, 3 or 7, 9; 2 or 3 hours.  
 Rhetoric 1; 6 hours.  
 Thremmatology 1; 5 hours.

**ELECTIVES**

**List A.**—Animal Husbandry 1 to 5, 10 to 14, 16 to 21; 24½ hours.

Dairy Husbandry 2, 2½ hours.

**List B.**—English 1 to 16; 3 to 8 hours.

Rhetoric 3; 4 to 8 hours.

**List C.**—Agronomy 1, 2 to 5, 7, 8, 10, 11, 13 to 18; 1 to 63 hours.

Animal Husbandry 1 to 5, 10 to 14, 16 to 21; 1 to 43 hours.

Dairy Husbandry 1 to 9, 11, 12; 2½ to 40 hours.

Horticulture 2 to 9, 11 to 19; 2 to 72 hours.

Veterinary Science 2, 4, 5; 5 to 20 hours.

**List D.**<sup>1</sup>—Botany 7, 3 hours.

Economics 16c, 2 hours.

Geology 12, 5 hours.

Meteorology (Geology 14), 3 hours.

*Requirements for Graduation in the Agriculture Course*

Students are graduated with the degree of bachelor of science upon completing the following work:

1. The studies of the prescribed list.
2. Sufficient electives to make a total of 130 semester hours, of which not less than four and one-half shall be chosen from elective list A, not less than three from elective list B, not less than twenty-five from elective list C, and the remainder from any subjects offered in the University, which the student is prepared to take.

A thesis is not required for graduation, but any student who has completed not less than 90 hours of credit before the senior year may then elect a thesis course in any department (subject to the approval of the head thereof) in which he has done at least 20 hours' work

<sup>1</sup>Electives specially recommended to agricultural students.

For this purpose animal husbandry will admit credits in thremmatology to the extent of five hours. Thremmatology will admit all work in animals and plants relating to type or function, whether done in agricultural departments or in those of botany or zoölogy, but does not include credits in crop or animal production.

### COURSES OF INSTRUCTION

#### *Leading to the degree of B.S. in Agriculture*

The following outlines show the most favorable time and order in which the prescribed studies of the course can be taken. By adding to this from the elective list the student will be able to meet his individual needs, so that a variety of courses may be built about this outline of subjects prescribed for graduation. Though it is not insisted that the scheme be followed, students are strongly recommended to follow it, in order to avoid conflicts.

#### First Year

1. Botany 12 (second half, Tu., Th, 3;)<sup>1</sup>; Chemistry 1 (10, 11); Dairy Husbandry 1, (first half 1, 2;); Geology 11 (first half, Tu., Th., 3); Military 2; Library Science 12 (6:30 M); Physical Training 1, 3; Rhetoric 1 (8, 9, 10, 11, 1, 2, 3; M., W., F.); Electives in Agriculture.

2. Agronomy 6 (8, 9); Chemistry 3b (10, 11); 4 (10, 11); Military 1, 2; Physical Training 1; Rhetoric 1 (8, 9, 10, 11, 1, 2, 3; M. W., F.); Electives in Agriculture.

#### Second Year

1. Chemistry 13a (10, 11); Entomology 4 (3 first half); Horticulture 1 (1, 2). Library Science 12 (6:30 M.); Rhetoric or English; Electives.

2. Botany 1 (1, 2) or Zoölogy 10 (1, 2) Household Science 8 (3); Military 2; Rhetoric or English; Electives.

#### Third Year

1. Agronomy 9 (8, 9); Botany 2 (1, 2); Economics 2 (3 M., W.); Electives.

2. Agronomy 12 (8, 9); Horticulture 10 (Sat. 10, 11); Electives.

<sup>1</sup>The numbers after the subjects refer to the number of the course in the General Description of Courses, pp. 208 ff. The numbers in parenthesis indicate the hour of the day at which the work comes. The letters indicate the days of the week.

## Fourth Year

1. Animal Husbandry 7, first half (10); Electives.
2. Thremmatology 1 (11); Electives.

## SUGGESTED COURSE FOR STUDENTS SPECIALIZING IN DAIRY HUSBANDRY

## First Year

1. Botany 12 (second half 3; Tu., Th.); Chemistry 1 (10, 11); Library Science 12 (6:30 M.); Geology 11 (first half Tu., Th. 3); Military 2; Physical Training 1, 3; Rhetoric 1 (3; M., W., F.); Dairy Husbandry 1 (1, 2); 14 (1, 2).

2. Agronomy 6 (8, 9); Chemistry 3b (10, 11); 4 (10, 11); Military 1, 2; Physical Training 1, 3; Rhetoric 1 (3; M., W., F.); Dairy Husbandry 19 (1, 2); 15 (1, 2).

## Second Year

1. Chemistry 13a (10, 11); Entomology 4, (first half 8, 9); Horticulture 1 (1, 2); Rhetoric or English; Dairy Husbandry 2 (8, 9); 16 (8, 9).

2. Botany 1 (1, 2) or Zoölogy 10 (1, 2); Household Science 8 (3); Military 2; Rhetoric or English; Dairy Husbandry 18 (8); 17 (8, 9).

## Third Year

1. Agronomy 9 (8, 9); Botany 2 (1, 2) or Zoölogy 2 (Lect. 11; Tu., Th., arrange Lab.); Economics 2 (3; M., W.); Dairy Husbandry 11 (10, 11); 18 (10, 11); Electives.

2. Agronomy 12 (8, 9); Horticulture 10 (11; M., W., F.); Dairy Husbandry 20 (2); 7 (10, 11); Electives.

## Fourth Year

1. Animal Husbandry 7, (first half 10); Electives.

2. Dairy Husbandry 12 (arrange time); Thremmatology 1 (11); Electives.

## SUGGESTED COURSE FOR STUDENTS SPECIALIZING IN HORTICULTURE

## First Year

1. Chemistry 1 (10, 11); Dairy Husbandry 20, (first half 1, 2); Horticulture 4 (8, 9); 5, (second half 1, 2); Military 2; Physical Training 1, 3; Rhetoric 1 (3, M., W., F.).

2. Agronomy 6 (8, 9); Botany 1 (1, 2); Chemistry 3b (10, 11); 4 (10, 11); Military 1, 2; Physical Training 1; Rhetoric 1 (3, M., W., F.)

## Second Year

1. Chemistry 13a (10, 11); Entomology 4, (first half 8, 9); English 1 (3); Horticulture 1 (1, 2); Library Science 12 (6:30 M.); Military 2.

2. Animal Husbandry 4 and 5, (first half 1 or 2); Horticulture 2, (8; Tu., Th.); 3 (8, M., W., F.); 7, (second half 1, 2); 15 (10); Household Science 8 (3, Tu.); Military 2.

## Third Year

1. Agronomy 9 (8, 9); Botany 2 (1, 2; 12, (first half 3; Th.); Economics 2 (3, M., W.); Horticulture 12, (second half 10), Elective.

2. Agronomy 12, (8, 9); Horticulture 8 (10, 11); 10 (3, F.; 10, 11; S.)

## Fourth Year

1. Animal Husbandry 7, (first half 10); 16, (first half 3; M., W., F.); Botany 7 (8, 9; M., W., F.); Thremmatology 1, (11); Elective.

2. Horticulture 17; Elective, including Thesis.

## GENERAL COURSE IN HOUSEHOLD SCIENCE

This course is designed to provide an education in those branches that especially serve the interests of women students.

Although the main work is scientific and technical, the importance of an artistic and literary training for home life is not lost sight of, and ample opportunity is given for a study of subjects of that character. Indeed, so important are they deemed that a considerable amount of art and design, English, history, and foreign language is required of students in the course. Opportunity is given, moreover, for increasing the amount of liberal, scientific or technical subjects by leaving the way open for a certain number of electives. Of the one hundred and thirty hours required for graduation, ninety-one are provided for in the prescribed list and the restricted electives of list A<sup>1</sup>. The other hours of credit necessary for graduation may be taken, subject to the approval of the Dean of the

<sup>1</sup>See pages 144-5.

College. from any courses offered in the University. Holders of scholarships in household science in this college take the course as laid out here. Variations from it can be made only by special permission of the Council of Administration on recommendation of the faculty of the college.

### PREScribed SUBJECTS

Architecture 29; 2 hours.  
 Art and Design 1, 16; 4 hours.  
 Botany 11; 5 hours.  
 Chemistry 1, 3b, 4; 10 hours.  
 English 1, 4 or 23; 7 or 8 hours.  
 History 3; 6 hours.  
 Household Science 1, 2, 3, 6, 7; 12 hours.  
 Library 12; 1 hour.  
 Physiology 4; 5 hours.  
 Physical Training 7, 9; 3 hours.  
 Rhetoric 2; 6 hours.

In addition to the above, students will elect as follows:

Botany or Zoölogy, 5 hours.  
 English or Rhetoric, 5 hours.  
 Foreign Language, 16 hours.

<sup>1</sup>Elective List A., a minimum of 4 hours.

### ELECTIVES

**List A.**—Architecture 6; 4 hours.  
 Horticulture 10, 19; 5 hours.  
 Household Science 5, 10; 5 hours.  
 Economics 1 and 16 B or 17, 7 hours.  
 Physics 2; 4 hours.

### COURSE OF INSTRUCTION

*Required for the Degree of B.S. in General Course in Household Science*

#### First Year

1. Botany 11 or Zoölogy 10; Chemistry 1; Household Science 2; Rhetoric 1; Physical Training 7, 9.
2. Chemistry 3b, 4; Household Science 1; Rhetoric 1; Botany 1; Physical Training 7, 9.

<sup>1</sup>If Physics has not been offered for entrance, its equivalent should be elected.

## Second Year

1. English 1; Art and Design 1, 16; Foreign Language; Household Science 6; Architecture 29.
2. Household Science 3; English 27 or 23; Foreign Language; Botany 5.

## Third Year

1. History 3; Library 12; Household Science 7.
2. Physiology 4; History 1.

## Fourth Year

See elective list and requirements for graduation.

## GRADUATE SCHOOL

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Graduates of the University of Illinois, and of other colleges and universities of approved standing, may be admitted to membership in the Graduate School. Other persons, suitably qualified, may gain admission upon such conditions as may be imposed in each case.

With the exceptions named in the next paragraph, all members of the Graduate School are required to be in regular attendance at the University, and to do all the work for which they are registered in the departments to which such work belongs. In case of absence on leave, or when absence is necessary to carry on investigations included in approved courses of study, the requirement of continuous residence may be suitably modified.

Graduates of this University may be admitted to non-resident membership in the Graduate School, as candidates for second, or masters', degrees; and all members of the School who have met the residence requirement for advanced degrees may register as non-residents while completing the work for such degrees.

Members of the Graduate School register with the Dean during the registration days, at the beginning of the collegiate year. Admission may be granted at other times, but the time limit required for degrees counts from the date of the certificate of membership.

Those only are enrolled as members of the Graduate School who enter upon or pursue approved graduate work. Resident graduates who are candidates for bachelor degrees are not included.

## STUDIES AND EXAMINATIONS

As far as can be indicated by a statement of time, full work for a graduate student consists in the use of forty-five hours a week in the lecture rooms, laboratories, etc., and in private study. Assignments of work are made upon this basis; but great variations naturally result from the subject matter in hand, and from the abilities of individuals.

Each student must select one principal line of study, and upon this major subject at least one-half of his work must be done; and any greater proportion of his time, up to the whole of it, may thus be devoted if proper approval is had. When work upon the selected major subject is not arranged to require all of the student's attention, he must choose one or two minor subjects, as may be necessary to complete a full course of study. Usually, at least one minor subject should be taken. Not more than two may be taken at the same time.

The major study must be approved as graduate work for this University, preceded by an amount of undergraduate preparation determined by the officers in charge. The minor subjects may, under approval, be chosen from those offered to graduates; or, except in the College of Engineering, from undergraduate courses of advanced grade. But all candidates for advanced degrees must direct their selection toward some well-defined end, determine for the most part by the character and purpose of the major study.

In the College of Engineering the major line of study must form not less than two-thirds of the entire graduate course, and must be one course, or some combination of the courses enumerated under the heading of "Courses for Graduates," given with each departmental subject; thus one candidate for an advanced degree may have assigned him as his major subject, Architecture 101, 103, and 107; another, Mechanical Engineering 104 and 107; and the extent to which each of the enumerated subjects is to be

pursued may be indicated in credit hours upon the application blanks.

Examinations are required in all subjects.

The head of the department in which the student does his major work is charged with the direction and supervision of such major work, and, in a general way, with the supervision of the student's entire course of study.

## ADVANCED DEGREES

No degrees are given for study *in absentia*, except that graduates of this University, who become members of the Graduate School and reside elsewhere, may receive a master's degree upon the completion of their course of study within not less than three years of the date of registration. Advanced degrees are conferred by the Trustees of the University only upon recommendation of the Senate, based upon information furnished by the Council of Administration.

## SECOND DEGREES

The second degrees conferred by this University are as follows:

*Master of Arts* after Bachelor of Arts.

*Master of Science* after Bachelor of Science in courses in the colleges of Agriculture and Science.

*Master of Architecture* after Bachelor of Science in the courses of Agriculture and Agricultural Engineering.

*Civil Engineer* after Bachelor of Science in the course of Civil Engineering.

*Electrical Engineer* after Bachelor of Science in the course in Electrical Engineering.

*Mechanical Engineer* after Bachelor of Science in the course in Mechanical Engineering.

*Pharmaceutical Chemist* after Graduate in Pharmacy.

All candidates for second degrees are required to register in the Graduate School, to pursue an approved course of study for one academic year in residence, or, in the case

of graduates of this University, for three years *in absentia*; and to pass satisfactory examinations upon all the studies of the approved course.

Each candidate for a second degree must present an acceptable thesis in the line of his major subject of study. The subject of this thesis must be announced to the Dean of the Graduate School not later than the first Monday in November of the academic year in which the course is to be completed. The completed thesis, upon regulation paper, with the certified approval of the professor in charge, must be presented to the Dean not later than June 1st.

#### DOCTOR'S DEGREE

The Degree of Doctor of Philosophy may be conferred upon any member of the Graduate School who shall have reached high attainments in scholarship, who shall have shown marked ability in some line of literary or scientific investigation, and shall have presented a thesis giving clear indications of such scholarship and of such power of research. Candidates for the degree must also prove their ability to use French and German sufficiently for work in their lines of research. At least the first two, or the last one, of three years of graduate study must be in residence at this University.

The time and study required for a master's degree may be included in the three years required, but approval of a course of study for a doctor's degree must be upon the condition that the candidate is prepared through his baccalaureate work, or otherwise, to enter upon advanced work in the line of his major subject, and the work on this major subject must be continued through the three years.

The final examination of a candidate for the doctor's degree is conducted by a committee consisting of the head of the department under which the major subject has been pursued, as chairman, and of not less than two additional

members of the Senate of the University, appointed for the purpose. This examination covers all the subjects of the course approved for the degree, but is especially searching upon that on which the major work has been done.

Each candidate for a doctor's degree must announce to the Dean of the Graduate School a thesis subject, approved by the head of the department concerned, not later than the first Monday in November of the academic year at the close of which the award of the degree is expected. A fair copy of the thesis must be submitted, with a certified approval of the committee on examinations, to the Faculty of the Graduate School, not later than the first day of June. If the thesis is approved by the Faculty, the candidate must have it printed and must deposit not less than one hundred copies with the librarian of the University.

### FELLOWSHIPS

The Trustees of the University have established eight fellowships, each with a stipend of three hundred dollars, payable in ten monthly installments.

The rules governing appointments to these fellowships are as follows:

1. The purpose of these fellowships is to promote advanced scholarship and original research in the University.

2. The fellowships are open to graduates of this and similar institutions. Those who are to complete an undergraduate course previous to the academic year for which appointments are made are eligible with others, as candidates.

3. Nominations to fellowships, accompanied by assignments to special departments of the University, are made upon applications received by the President of the University each year not later than the first day of February. These nominations are made within the month of February. The appointments by the Trustees are made

at their regular meeting in March, and take effect the first day of the following September. Vacancies may be filled by similar nominations and appointments at other times.

4. Nominations to fellowships are made upon the grounds of worthiness of character, scholastic attainments, and promise of success in the principal line of study or research to which the candidate proposes to devote himself.

5. Candidates must present, with their applications, full information concerning themselves and their qualifications for advanced study and research work, including any written or printed essays or results of investigation, and must name the subjects in which they wish to do their major work.

6. Fellowships are good for one year, but appointments may be renewed to the same person. An appointment as *honorary fellow*, without stipend, may be made as specified for paid fellowships in the case of anyone who has held a regular fellowship and has shown distinguished merit in his work.

7. Fellows are members of the Graduate School and have all of the privileges and bear all of the responsibilities of such membership. Each regular fellow may be called upon to render service in instruction throughout the year in the department in which his major subject lies, equal to one hour daily of class instruction or to two hours daily of laboratory supervision. This service will receive such credit as may be determined in each case. Blank forms for application may be obtained by addressing the Registrar, or the Dean of the Graduate School.

# STATE LIBRARY SCHOOL<sup>1</sup>

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## FACULTY

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EDMUND JANES JAMES, PH.D., L.D., PRESIDENT.

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KATHARINE L. SHARP, PH.M., B.L.S., DIRECTOR, Professor of Library Economy, Head Librarian.

FRANCES SIMPSON, M.L., B.L.S., Assistant Professor, Reference Librarian.

ANNA MAY PRICE, A.M., B.L.S., Assistant Professor.

FANNY R. JACKSON, A.B., B.L.S., Periodical Assistant, Instructor in Public Documents.

HARRIET E. HOWE, B.L.S., Instructor, Library Economy.

BERTHA E. ROYCE, B.L.S., Reference Assistant, Instructor in General Reference.

EMMA R. JUTTON, B.L.S., Loan Librarian.

AGNES M. COLE, B.S., B.L.S., Catalog Librarian.

GRACE O. KELLEY, B.L.S., Cataloger.

FRANCIS K. WYNKOOP DRURY, A.M., Order Librarian.

ANNE D. SWEZEY, B.L.S., Order Assistant.

ANNA D. WHITE, B.L.S., Assistant in Charge of Loan Desk.

STELLA BENNETT, B.L.S., Assistant Cataloger.

HELEN V. CALHOUN, B.L.S., Continuation Assistant.

BERTHA J. BOND, A.B., B.L.S., Assistant in Charge of Loan Desk.

JOHN W. PREIHS, Custodian of Law Library.

HARVEY L. MELTON, Custodian of Law Library.

FRANK M. BUMSTEAD, Shelf Assistant in the Library.

## ADMISSION

Applicants for admission to the Library School must have matriculated in the University and must have secured here or at some other college or University, 98

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<sup>1</sup>A special circular describing the work of the Library School in detail may be obtained on application to the Registrar.

hours<sup>1</sup> of credit in university work, including the subjects prescribed for graduation from the College of Literature and Arts or the College of Science.

#### AIMS AND SCOPE

It is the purpose of the Library School to offer instruction (1) to students who wish to specialize in library work as a profession, and (2) to students who wish to elect liberal library courses as part of a general education.

The school was established at Armour Institute of Technology, Chicago, in September, 1893, and was transferred to the University of Illinois in September, 1897. In its ten years of existence it has advanced its entrance requirements from high school graduation to three years of university work and has extended its instruction from one year to two years. Students are urged to complete a four years' college course before applying for admission.

The degree of bachelor of library science is conferred on those who after securing 98 hours' University credit, as described under "Admission," complete successfully the first year of library school work.

Electives are introduced to allow for personal preference and fitness for different positions. The practical work of the course amounts to over three months of time, counting eight hours a day, and this is more valuable, because more varied, than if taken in three consecutive months in a library. Moreover, the library school student has the benefit of comparative study, while the apprentice becomes skillful in the ways of one library only.

Although elaborate methods are taught to enable students to work in large libraries where bibliographic exactness is required, stress is laid throughout the course on simplicity and economy of administration. Moreover, emphasis is constantly laid on the responsibility of the librarian to the schools and clubs and to the community at large.

The general student, not a candidate for the degree of

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<sup>1</sup>See page 208.

bachelor of arts in library science, may elect, in his senior year, any subject in the list of library electives for which he is prepared. Such subjects have been indicated as will help the student in general reading, in research work, in club work, or as a member of a library committee or board of trustees. For the general student who does not care to take the required fourth year of the Library School, nor to elect any regular library course, the School offers a course of fifteen lessons on the use of the library and the ordinary reference books. This course is open to students in all classes.

### REQUIREMENTS FOR GRADUATION

Credit for two years' technical library work, is required for graduation.

#### COURSE OF INSTRUCTION

#### *Required for the degree of B.L.S.*

##### Fourth Year

1. Elementary Library Economy (Lib. 1); Elementary Reference (Lib. 2); Selection of Books (Lib. 3); History of Libraries (Lib. 7); Library Extension (Lib. 14); Elementary Laboratory Course (Lib. 4).

2. Elementary Library Economy (Lib. 1); Elementary Reference (Lib. 2); Selection of Books (Lib. 3); Library Extension (Lib. 14); Elementary Laboratory Course (Lib. 4).

##### Fifth Year

1. Advanced Library Economy (Lib. 5); Bibliography (Lib. 6); Advanced Reference (Lib. 8)<sup>1</sup>; Public Documents (Lib. 13) Advanced Laboratory Course (Lib. 10); Thesis (Lib. 11).

2. Advanced Library Economy (Lib. 5); Bibliography (Lib. 6); Bookmaking (Lib. 9)<sup>1</sup>; Public Documents (Lib. 13)<sup>1</sup> Advanced Laboratory Course (Lib. 10); Thesis (Lib. 11).

### METHODS OF INSTRUCTION

There are so few text-books on library economy that instruction is given almost altogether by lecture and laboratory methods. Reference to books and periodicals are given for collateral reading, and individual research is encouraged. Lectures are illustrated by the collections of

<sup>1</sup>Electives for library students.

forms and fittings, and each student is expected to do a certain amount of practical work in the University library each day. Before completing the course, each student must have had actual experience in every department of the library. Class room work is tested by problems, and examinations take the form of problems wherever practicable.

#### LOCAL LIBRARY COOPERATION

The library of the University of Illinois and the Champaign Public Library have systematic plans for co-operation through the Library School, in the interest of the clubs. Each womans club in Champaign and Urbana sends its program for the year to the Library School, where a reference list is made on each subject, specifying in which library the material is to be found. A copy of each list is posted in each library.

#### EQUIPMENT

The most valuable equipment is the working library of the University.

The Library School has the complete collection of manuscript notes and problems which have been prepared since the School opened in 1893, and a collection of library reports and catalogs and of mounted samples, showing methods of administration in all departments. A collection of card catalogs of various forms has been made, including the book forms from Leyden, Holland; Cassel, Germany; and Florence, Italy; and the modern forms approved by the American Library Association. Other forms are represented by photographs.

The School has a collection of printed blanks and forms illustrating methods of administration in different types of libraries, many labor-saving devices, and samples of fittings for all departments.

A collection of cataloging rules and of classification systems is making for comparative study. A number of devices and patents, such as temporary binders, pamphlet cases, newspaper files, etc., have been contributed by inventors and manufacturers.

## SCHOOL OF MUSIC<sup>1</sup>

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### FACULTY

EDMUND JANES JAMES, PH.D., LL.D., PRESIDENT.

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FREDERICK LOCKE LAWRENCE, DIRECTOR, Professor of Music (Piano).

BENJAMIN WITMER BRENEMAN, Assistant Professor, Vocal Music.

ALMEDA FRANCES MANN, Instructor, Piano; in charge of Preparatory Department.

MAY EMORY BRENEMAN, Instructor, Vocal Music.

GEORGE FOSS SCHWARTZ, M.B., A.M., Instructor, Violin, Musical History, and Theory.

CONSTANCE BARLOW SMITH, Instructor, Sight Singing, Ear Training, and Public School Methods.

MARY WENDELL GREENE, Instructor, Vocal Music.

WINIFRED FORBES, Instructor, Violin and Theory.

HENRI JACOBUS VAN DEN BERG, Instructor, Piano.

MAE I. NORRIS, Instructor, Piano.

ALBERT A. HARDING, Instructor Band Instruments.

### ADMISSION

For admission to the School of Music, the candidate must fulfill the general conditions described in paragraphs 1 to 7 on pages 75-6. He may then enter on presentation of a certificate from a fully accredited high school, for all required credits except music, or by examination, or by transfer of credits from some other college or university.

As in all other cases, 14 units of high school work are

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<sup>1</sup>A special circular giving complete details of the work of the School of Music may be obtained on application to the Registrar.

required for admission. Of these the following are prescribed and no substitutes are allowed:

|                           |     |                    |
|---------------------------|-----|--------------------|
| Alegebra .....            | 1 ½ | units              |
| English Composition ..... | 1   | unit               |
| Literature .....          | 2   | units              |
| Geometry, Plane .....     | 1   | unit               |
| History .....             | 1   | unit               |
| Foreign Language .....    | 3   | units <sup>1</sup> |
| Music .....               | 2   | units              |

The remainder of the required 14 units must then be made up from the elective subjects listed in the table on page 77 in the amounts here indicated. The subjects accepted for admission are described on pages 77ff.

The 2 units required in music must be obtained in all cases by examination at the University. Certificates for this work are not accepted. For admission as special students, admission to advanced standing, etc., see pages 85-6.

### AIMS AND SCOPE

The School of Music offers regular courses leading to the degree of bachelor of music, and furnishes opportunity to students not candidates for a degree to spend an indefinite amount of time in the study of an instrument or of the voice.

A series of lectures and recitals is given each year under the management of the School of Music. In these recitals only artists of the best reputation appear. Music students are admitted free, and are required to attend these concerts.

The instructors in the School of Music give recitals and lectures on musical subjects during the year.

The course in the history of music, as well as the work in the University Orchestra and the University Choral Society, may be taken by students in other departments.

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<sup>1</sup>At least 2 of these must be in the same language.

## REQUIREMENTS FOR GRADUATION

Credit for 130 semester hours,<sup>1</sup> including military and physical training credit, together with an acceptable thesis, is required for graduation. The thesis must be on a topic related to music.

Students who are not working for the degree in music may receive a statement from instructors upon completing not less than one year of college work.

Special and preparatory music students are required, in addition to their practical work in music, to take a certain amount of other studies.

Students enrolled in the department of music only, pay no semester fees, but must pay the music fees. (See p. 357.)

Classes in ear-training meet twice each week. The fundamental principles of musical notation are studied thoroughly, and the ear is trained to recognize intervals, chords, etc., so that the student may eventually think music. Music students are required to attend these classes.

The sight singing classes meet twice each week. This work is required of music students and is open to any University students who desire to take it.

## CLASSIFICATION OF SUBJECTS

### PRESCRIBED

Music 1; 4 hours.

Music 2; 4 hours.

Music 3; 6 hours.

Music 4; 6 hours.

Music 5; 5 hours.

Music 7; 8, 9, 10;

or 12, 13, 14, 15;

or 17, 18, 19, 20; 58 hours.

French or German; 16 hours.

Mathematics 4; 2 hours.

Military 1, 2; 5 hours.

<sup>1</sup>See page 208.

## Physical Training—

Men, 1, 3; 2 hours.

Women, 7, 9; 3 hours.

Physics 2; 2 hours.

English 1; 4 hours.

Rhetoric 1; 6 hours.

English 16; 3 hours.

Rhetoric 3; 4 hours.

The remaining hours of credit may be obtained in electives offered in the College of Literature and Arts, choice of subjects being left to individual students.

## MUSICAL ORGANIZATIONS

*The University Glee Club* is an organization for men. Membership is decided by competition and is limited to sixteen in number. The club meets twice a week for rehearsal.

*The Ladies' Glee Club* is an organization for the young ladies of the University, and is in charge of the head of the vocal department.

*The Mandolin and Guitar Club* is open to young men. Membership is decided by competition, and the club is associated with the Glee Club in its concerts.

*The Military Band* is conducted by the Director of the School of Music. Besides giving several concerts during the year, it furnishes music for important University occasions, regimental formations and ceremonies and on all other occasions required by the President. Membership is limited in number and is decided by competitive examination.

*The University Orchestra* meets for a two hours' rehearsal once a week, and is open to all students who play any orchestral instrument ordinarily well.

*The University Choral Society* is conducted by the Director of the School of Music, and meets once a week for rehearsal of choral works. A small fee is charged for membership, and singers not connected with the University are admitted.

# COLLEGE OF LAW

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## FACULTY

EDMUND JANES JAMES, PH.D., LL.D., President.

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OLIVER A. HARKER, A.M., DEAN, Professor of Law.

CHARLES C. PICKETT, A.B., LL.B., Professor.

THOMAS W. HUGHES, LL.M., Professor.

FREDERICK GREEN, A.M., LL.B., Professor.

GEORGE L. CLARK, A.B., LL.B., Professor.

ELLIOTT J. NORTHRUP, A.B., LL.B., Assistant Professor.

## ADMISSION

1. All applicants for admission to the College of Law must be at least 18 years of age and of good character.

The general and special requirements for admission to the College of Law are the same as those for admission to the College of Literature and Arts (see pages 75ff.) with the exception of the foreign language prescribed for the latter college; that is, the algebra, English composition and literature, history, plane geometry, are required, as described on pages 76-7. The remainder of the 14 units required for admission must be made up from the elective subjects listed in the table on page 77.

The subjects are described on pages 77-83.

Graduates of colleges and of scientific schools of approved standing are admitted upon diploma or certificate, without examination.

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<sup>1</sup>A special circular describing the work of the College of Law in detail may be obtained on application to the Registrar.

## ADVANCED STANDING

The following classes of persons are admitted to advanced standing:

1. Persons who produce from another law school, in good standing, certificates of having satisfactorily pursued courses in law, included in the following schedule, and of having received credit therein, *provided* that the time spent on such courses is equivalent to the time spent on the same courses in this College. Otherwise, an examination on such courses, given by the instructors in this College, must be satisfactorily passed.

2. Persons who have studied law privately, or in an attorney's office, and pass examinations prescribed by the faculty of the College.

3. Members of the bar of this state, who will be admitted to the third-year class without examination, as candidates for the degree of LL.B.

## SPECIAL STUDENTS

Students who do not desire to be candidates for a degree may take one or more courses as special students, upon approval of the faculty of the College, under regulations prescribed by the University. Such students receive credit for work satisfactorily done, and may become candidates for graduation at any time by meeting the requirements of the College.

## METHODS OF INSTRUCTION

The methods of instruction used in this College are based largely upon the study of cases. Text-books are used to some extent, and lectures are occasionally resorted to, but the study of the case is regarded as the chief means to the attainment of legal knowledge and proficiency.

## LIBRARY AND MOOT COURT

The library consists of the leading text-books on all subjects: United States Supreme Court Reports; Eng-

lish Reports; Reports of the principal states of the Union; American Decisions; American Reports and American State Reports; the current volumes of the West Company Reporter System, and the leading legal periodicals.

The Moot Court is held once a week for the purpose of familiarizing the student with legal procedure. It is presided over by the Dean, Judge O. A. Harker, the other officers being elected by the law students from their own body. All second and third year students are required to be present, and to perform such duties as may be assigned them.

### LEGAL STUDY AND UNIVERSITY WORK

The Council of Administration will, upon application, in proper cases, apply credits earned in the College of Law upon other University courses.

Students matriculating in the College of Law may take any of the following courses: economics and social science, and history, subject to the approval of the Dean of the College of Law and the professors concerned. By special arrangement other work in the College of Literature and Arts may also be taken.

### COURSE OF INSTRUCTION

*Required for the Degree of LL.B.*

#### First Year

1. Contracts (Law 1); Torts (Law 2); Real Property (Law 3); Criminal Law (Law 5); Personal Property (Law 6).
2. Contracts (Law 1); Torts (Law 2); Real Property (Law 3); Common Law Pleading (Law 4); Domestic Relations (Law 7).

#### Second Year

1. Evidence (Law 8); Real Property (Law 10); Equity (Law 12); Damages (Law 13); Carriers (Law 14); Moot Court (Law 26).
2. Sales (Law 9); Agency (Law 11); Equity (Law 12); Wills (Law 18); Equity Pleading (Law 20); Moot Court (Law 26).

## Third Year

1. Advanced Pleading (Law 4a); Bills and Notes (Law 15); Trusts (Law 16); Partnership (Law 19); Constitutional Law (Law 22); Moot Court (Law 26).

2. Bills and Notes (Law 15); Corporations, private (Law 17); Corporations, municipal (Law 24); Suretyship and Mortgages (Law 21); Constitutional Law (Law 22); Bankruptcy (Law 25); Moot Court (Law 26).

In addition to the foregoing course of instruction, required for the degree of LL.B., the following subjects are offered as electives in the College of Law:

Insurance (Law 28); Conflict of Laws (Law 31); Quasi-Contracts (Law 32).

## REQUIREMENTS FOR GRADUATION

The requirements for graduation with the degree of bachelor of laws are seventy-two semester hours of work. A "semester hour," as here used, means one hour per week of class-room work for one-half of a year. The degree is conferred upon the completion of the course set forth above.

## ADMISSION TO THE BAR

Under the rules of the Supreme Court of Illinois, candidates for admission to the bar of this state must have had a high school education or its equivalent, must have completed a three years' course of study in a law school or law office, and must then pass an examination to be given by the State Board of Bar Examiners.

## COLLEGE OF MEDICINE

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(For Faculty of the College of Medicine see page 31).

### HISTORY

The College of Medicine, the College of Physicians and Surgeons, is located on the corner of Congress and Honore streets, Chicago, in the heart of the medical quarter of the city. It was founded in the year 1882 by a number of representative physicians and surgeons. In 1892 the College had a thorough reorganization, and erected a commodious laboratory building, the first building exclusively for laboratory purposes erected by any medical school in the West. Since that time it has grown with steadiness and rapidity. It became the Medical Department of the University in April, 1897.

Chicago is already the center of medical study in the United States. Since the winter of 1897-98 it has contained a larger number of medical students than any other city in the western hemisphere. These students are distributed among fourteen medical colleges, of which the College of Physicians and Surgeons is the first as to the size of its classes, and is not outranked by any in respect to its facilities, or the scope and thoroughness of its curriculum, or in regard to the place it occupies in the esteem of the medical profession.

### REQUIREMENTS FOR ADMISSION

First, a certificate of good moral character from two reputable physicians, and:

Second, a diploma of a State normal school, an ac-

credited high school or academy of the University of Illinois, or of a similarly accredited school of another university, whose entrance requirements are equivalent to the entrance requirements of the University of Illinois:

Third, a certificate of admission to a literary or scientific college whose standards are equal to those of the University of Illinois:

Fourth, a certificate of successful examination conducted by a State Board of examiners, whose standards are at least equal to those of an accredited high school of the University of Illinois, or

Fifth, a certificate signed by an acceptable principal of an accredited high school or by the examiner of the faculty of a recognized literary or scientific college or university, or by the State or City Superintendent of Public Instruction, or a Superintendent of Public Schools, of having successfully passed an examination in all the branches embraced in the curriculum of a four years' course of an accredited high school.

#### REGISTRATION

Students are required to register in the office of the Secretary immediately upon the opening of the term for the work in that term, and credit will be allowed only in the branches in which the students are registered. Students will be registered in the order in which their fees are paid.

#### ARRANGEMENT OF THE COURSE

The collegiate year is divided into two terms, called respectively the winter term and the summer term. The *winter* term consists of a session of thirty-six weeks, beginning September 25th, 1906, and ending June 4th, 1907, at which time the annual graduating exercises will be held. Attendance upon the full winter term is required in order to secure credit for a year's work, and attendance upon four winter terms is required for graduation. The

*summer* term consists of a session of twelve weeks, beginning June 6th, 1907. The schedule for the summer term may be had on application. This course is open to both graduates and undergraduates. It affords opportunities to practitioners to do work along special lines. Undergraduates who attend it will receive credit for the same, either toward making up any study in which they are deficient; or as a credit toward the work of the next session, except in the studies of the senior year which will be final only for those who have taken a previous course of instruction in those studies.

The curriculum required for graduation extends over four years. During the first two years the work is confined to the sciences fundamental to practical medicine. During the freshman year this consists of work in histology, biology, embryology, chemistry, materia medica, human anatomy and physiology. During the sophomore year the study of physiology, chemistry and human anatomy is continued, and in addition the student takes up pathology and bacteriology. With the junior year the study of the practical branches of medicine is begun. The student also begins clinical and bed-side work, and receives instruction in medical and surgical specialties. During the junior and senior years 1,000 hours of work are required in each year. Of this 1,000 hours, approximately 500 are "specified," and the balance "elective." This plan permits a student to specialize along the lines best suited to his purpose. A certain amount of clinical work is required, but the student is permitted to elect the work offered by all clinical teachers and permitted to attend all lectures and clinics.

#### THE SIX-YEAR MEDICAL COURSE

In addition to the usual four years' medical course, the University offers a six years' continuous course which leads to the degree of bachelor of arts upon the completion of four years' work, and to the degree of doctor of medicine at the end of the entire course. It includes every-

thing contained in the four years' medical course and in addition enables the student to go more deeply than would otherwise be possible into the fundamental sciences upon which medical studies are based.

Students wishing so to combine their work in general science with their professional studies in medicine as to receive both degrees may accomplish this purpose by pursuing at the University in Urbana (the following) three years of work, including a year of medical studies, and then continuing their medical work at the Medical Department in Chicago.

The first three years must include all of the subjects in the general prescribed list, page 97 (including the second alternative in chemistry), and the following list of studies, especially prescribed for this course:

Art and Design, 1, 3 hours.

Chemistry, 9c; 2 hours.

Botany, 5; 5 hours.

Latin, 1; 4 hours.

Physics, 2a; 8 hours.

Physiology 1, or 1 and 2.

Psychology 1, 6; 5 hours.

Zoölogy 10, 2, 3; 16 hours.

1. One year's credit in Latin required, if Latin has not been offered for entrance.

The *prescribed* studies should be taken according to the following prospectus:

### PROSPECTUS OF PRESCRIBED COURSES

#### First Year

1. Art and Design; Elementary Chemistry (Chemistry 1); Rhetoric and Themes (Rhet. 1); Military 2; Physical Training for Men 1, 3; for Women, 7, 9; Trigonometry (Math. 4); Zoölogy 10.

2. Descriptive Inorganic Chemistry (Chem. 2); Qualitative Analysis (Chem. 3a); Rhetoric and Themes (Rhet. 1); Military 1, 2; Physical Training; for Men 1, 3; for Women 7; Zoölogy 2.

## Second Year

1. German 1 or 4, or Latin; Zoölogy 3; Quantitative analysis (Chem. 5a); Military 2; Physics 2a.
2. German 3 or 5 or 6 or Latin; Zoölogy 3; Organic Chemistry (Chem. 9, 9c); Military 2; Physics 2a.

## Third Year

1. German 4; Psychology 1, 6; Physiology 1.
2. German 5 or 6; Physiology 1; Bacteriology (Bot. 5); Electives.

## Fourth Year

All electives.

Students having completed the above three years of prescribed work at the University, together with electives sufficient to amount to 97 hours' credit, will be given the degree of bachelor of arts at the commencement next following the completion at the medical college of the work in human anatomy, physiology of the special senses and of the nervous system, therapeutics, general pathology, pathological anatomy, and surgical pathology (virtually one year's work).

The following subjects included in the above all count toward the medical degree:

Chemistry (general, organic, qualitative and quantitative analysis, and Toxicology), Biology, (Zoölogy), Physiology, Normal Histology, Embryology, and Bacteriology.

Upon the satisfactory completion of the remaining three years of the medical course, the University will confer the degree of doctor of medicine.

## ADVANCED STANDING

Students who present evidence of having attended one or more years at other medical institutions in good standing with the Illinois State Board of Health, and having complied with the entrance requirements of this College, may be admitted to advanced standing, and receive credit for time and also for the work which they have completed in the preceding years of the curriculum, if such work be

equal to that offered by this college. *Students thus advanced may not complain of any conflict of hours, nor absent themselves from any part of the lower conflicting course;* but they may make up deficiencies in the work of one term in any other term in which such work is offered.

Graduates of medical colleges in good standing with the Illinois State Board of Health, who have passed the examination of said Board, may be admitted to the graduating class without examination by complying with all the other requirements of undergraduates.

Examinations for advanced standing are held *only during the week* immediately preceding the opening of the term.

#### METHODS OF INSTRUCTION

During the first two years the time of the student is about equally divided between laboratory and didactic work. The plan of instruction in the College contemplates the freest use of laboratory teaching. Wherever possible, practical laboratory work is made to supplement didactic teaching. Students are taught not only by prepared specimens, but they are required to prepare their own specimens from the original material and are thus made familiar with technical methods, so that they become able independently to carry a technical investigation through all of its stages. During the junior and senior years the time is about equally divided between clinical and didactic work (much of which is done in class room), with a preponderance of clinical instruction in the senior year. This clinical instruction is carried on, as far as possible, with the student at the patient's side. Attendance upon clinics is required in the same way as upon lectures, and the students are graded upon, and given credit for, their work in the clinical courses, just as they are for the work in the didactic and laboratory courses. The students of the junior and senior years are divided into classes for dispensary work, and these classes have instruction in rotation in the various departments of practical medicine and surgery.

## BUILDINGS AND EQUIPMENT

In the summer of 1901 the College purchased from the Board of Education of Chicago the West Division High School property, situated adjacent to the original college building. This purchase, which represents, including alterations, an expenditure of over a quarter of a million of dollars, gives the College three-fourths of a city block lying between Harrison and Congress, and Honore and Lincoln streets, and a group of buildings which, for the purpose of medical education, are unsurpassed in the United States, and equalled in only a few instances in the world. The new College building is a brick and stone structure two hundred feet long by one hundred and ten feet deep, and five stories high. It fronts on four streets and stands on a lot entirely adequate in size for such a building, so that it is freely supplied with air and light. The building contains three large lecture rooms with a seating capacity of two hundred each, a clinical amphitheater modeled on modern plans for perfect asepsis, with a seating capacity of over three hundred; an assembly hall with a seating capacity of twelve hundred, and many recitation rooms seating from thirty to one hundred and fifty students each. It also contains special laboratories for physiology, chemistry, pathology, bacteriology, biology, materia medica, and microscopical or chemical diagnosis, each capable of accommodating from fifty to two hundred students at a time. The general equipment of the building and the special equipment of the laboratories are in keeping with the size and character of the building, and may challenge comparison with those of any other school in the country. The assembly hall is so constructed that it may be converted into a gymnasium. It is provided with all the apparatus of a well equipped gymnasium, including numerous shower baths, and gives the College a gymnasium which is fully equal to those possessed by the better class of undergraduate colleges. The use of the gymnasium is free to all the students of the College.

## HOSPITALS AND HOSPITAL FACILITIES

The West Side Hospital, containing 125 beds, owned by members and friends of the Faculty, is connected to the College by a corridor, and its clinical facilities thus made easily available for the instruction of the students. Adjacent to the College building is the Cook County Hospital, with approximately 1,000 patients, supplying a quantity and variety of material which no private institution can command. In the amphitheater of the hospital, much of the clinical instruction of the College is given. In addition to the foregoing resources, members of the Faculty are connected with various other hospitals situated in different parts of the city, and draw freely upon them for the benefit of the students.

## QUINE LIBRARY

The Quine Library is the best equipped private medical library west of the Alleghany Mountains. It contains all standard text books, books of reference and periodicals for the use of medical students, and is under the direction of a trained librarian.

## REQUIREMENTS FOR GRADUATION

1. Satisfactory evidence of good moral character.
2. Attendance during four collegiate years, the last of which must have been in this institution, and the completion of the required work of each year.
3. Satisfactory deportment.
4. Payment in full of all fees. (See page 358).

For catalog and detailed information address

SECRETARY COLLEGE OF MEDICINE,  
Congress and Honore Streets, Chicago, or  
REGISTRAR, University of Illinois, Urbana.

## COLLEGE OF DENTISTRY

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(For Faculty of College of Dentistry see p. 39).

### BUILDINGS AND EQUIPMENT

The College of Dentistry of the University of Illinois begins its sixth collegiate year October 8th, 1906.

The establishment of the College of Dentistry by the State University insures a stability and an earnest of future development and of high character of this department that must commend itself to all well-wishers of the dental profession.

The College occupies its own building, situated on the corner of Harrison and Honore streets in Chicago. This building is a six-story stone and brick structure, constructed at a cost of \$100,000, and is occupied exclusively by the School of Dentistry. It is commodious and complete in every particular. The building stands on the corner of two wide streets and is separated from the adjacent buildings on the north and east by wide, open spaces, so that the provisions for ventilation, and especially for light, are of the best possible character. It is located directly opposite the Cook County Hospital, in the center of the clinical field of Chicago, and is thus at all times insured of abundance of clinical material. Adjoining the college on the west is the West-Side Hospital, and on the north are the new buildings of the College of Medicine of the University of Illinois.

The Infirmary occupies the entire top floor of the main building. Large skylights, as well as north, east, south and west sidelights assist in making the Infirmary ideal.

As there are no immediately adjoining buildings, the light is unobstructed on all sides. The height is such that the observer has a birds-eye view of the city in all directions.

The Infirmary is divided into the Operative, Prosthetic and Orthodontia sections.

These departments are equipped with new chairs of the latest improved pattern, with fountain cuspidors attached, double-decked stands for accommodating students' operating cases, and sanitary washbowls with hot and cold water, formaldehyde instrument sterilizer and all appliances that in any way assist in making the Infirmary a model.

The Infirmary has adjacent to it a prosthetic laboratory, in which the students can do their molding, soldering and fusing. Compressed air apparatus, electric ovens for porcelain work, electric lathes, and such other apparatus as go properly to equip an ideal prosthetic laboratory are provided.

A large passenger elevator operated by electricity connects all floors.

#### ADMISSION AND GRADUATION

Students applying for admission should bring with them such certificates and diplomas, academic or professional, as they may possess. The point system is recognized by this college.

The rules and regulations passed by the National Association of Dental Faculties for the government of its members have been adopted by the faculty of this college.

Seven years ago a radical change was made by dental schools in the method of examination for admission. Formerly these examinations were made by the officials of the dental schools, but the faculties' association, in 1898, passed a rule requiring that these examinations be made by public school officers in the locality in which the applicant resides.

Therefore students without diplomas or teachers' certificates, desiring to matriculate in this school, must bring with them certificates signed by a county, state, or city superintendent of schools, or a principal of a high school.

These certificates must show the applicants to have completed a high school course, or its equivalent, in order to entitle them to enter this college for the term beginning October, 1906.

Students of both sexes are admitted on equal terms.

The monthly report of attendance, and the standing of pupils in quizzes, recitations, laboratory work and in infirmary practice, both operative and prosthetic, is considered in making up the rating of final examinations.

For further information regarding credentials of admission other than already specified, communicate with the Dean.

Graduates of reputable medical colleges are admitted to the second year's class, and are excused from lectures and examinations upon general anatomy, chemistry, histology, pathology and physiology, but are required to take lectures and examinations in special materia medica and therapeutics, pathology, histology, operative and prosthetic technics, in accordance with the rules of the National Association of Dental Faculties.

Students presenting passing grades from other recognized schools covering subjects required in this college, will be credited with such grades. Persons presenting A.B. or B.S. from recognized institutions will be credited.

The degree of Doctor of Dental Surgery is conferred on students who complete the three year course of instruction, perform the work required and pass satisfactory examinations. To be eligible to the degree, the student must be twenty-one years of age, possess a good moral character, and must have paid all fees.

## METHODS OF INSTRUCTION

Instruction is given by means of lectures and recitations, demonstrations and laboratory work. The time of the student is about equally divided between laboratory and clinical work on the one hand, and lectures and recitations on the other. The work of each session will be complete in itself, hence a graded course. Credits are given as the work proceeds.

Students are admitted to the laboratories from the beginning of the first year. The laboratory work is so arranged as to maintain the best relationship to the lectures and clinical studies.

In the clinical work, methods both of investigation and of reasoning are carefully and systematically taught. The diagnosis, prognosis and indications for treatment will receive no less attention than the methods of construction and the technique of procedures.

Fees<sup>1</sup> are payable in advance. Students unable to meet these requirements must make satisfactory arrangements with the DEAN or ACTUARY at the beginning of the course.

This announcement applies to the session beginning October 9, 1906, and all requirements, fees and regulations mentioned in it apply to this school year alone. The Trustees of the University reserve the right of making changes in succeeding announcements.

These conditions cannot be modified except upon the written consent of the proper officials of the University.

For such students as intend practicing in states requiring a four-year course there will be ample provision made.

Good board and rooms convenient to the school can be obtained at prices varying from three to five dollars a week, according to the accommodations; also vacant rooms without board, furnished or unfurnished, can be obtained at from six to ten dollars per month.

For further information relating to the College of Dentistry, address

DEAN COLLEGE OF DENTISTRY

Cor. Harrison and Honore Streets, Chicago, Ill., or the  
REGISTRAR of the University, Urbana, Ill.

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<sup>1</sup>See p. 358 for statement of fees.

## THE SCHOOL OF PHARMACY

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(For Faculty of School of Pharmacy see p. 41).

### HISTORY

The School of Pharmacy was originally the Chicago College of Pharmacy and was incorporated under that name, September 5th, 1859. Prior to that time there were but three schools of pharmacy in the country and these were located in the eastern states.

While the primary object of the institution was to provide instruction in the science and art of pharmacy, yet other functions were also developed. Thus, a code of ethics was early adopted by the members, successful efforts were made to bring about better relations between pharmacists and physicians, the pioneer pharmaceutical library was established and for eighteen years, beginning with 1868. a monthly journal, "The Pharmacist"—the first of its kind in the West—was published.

In October, 1859, the first course of lectures was instituted, occupying three evenings a week for a period of six months. Of the first class, but two students were graduated in 1861. The war caused a suspension of the teaching, and the school was not reopened until 1870. The great fire, in 1871, destroyed the equipment, but pharmacists throughout Europe and America extended help to the institution, furnishing an excellent library and outfit of apparatus, which became the nucleus of the present complete equipment. In 1872 the instruction was resumed for the second time and has since continued without interruption.

In 1880 the members and graduates of the College took an active part in the formation of the Illinois Pharmaceutical Association, which, in the following year, secured the passage of the pharmacy law.

The twenty-fifth anniversary of the founding of the College was signalized by the removal of the College to a larger building at 465 State street. Up to this time instruction had been given mainly by means of lectures, laboratory work being entirely optional. Laboratory courses in pharmacy, chemistry and vegetable histology were now made obligatory. A laboratory devoted entirely to prescription compounding was established in 1892.

The College was formally united with the University May 1, 1896, and is now conducted as the technical "School of Pharmacy of the University of Illinois." In the management of the School, the trustees and officers of the University have the assistance of an advisory board of pharmacists, elected by the registered pharmacists of the State through the Illinois Pharmaceutical Association.

#### NEW BUILDING

The School of Pharmacy is located in the building formerly occupied by the Chicago Manual Training School, at Michigan boulevard and Twelfth street. The building is a substantial brick structure, five stories in height, with a frontage of fifty feet on Michigan avenue and one hundred and seventy feet on Twelfth street. There are large windows on four sides, giving excellent light, and the rooms are heated by steam throughout.

The location is an ideal one, being near the center of the city and convenient to the various lines of transportation, yet removed from the noise and bustle of the business district.

A half block east of the building is the Illinois Central Depot, and one block west are the Cottage Grove avenue, the Indiana avenue and the Twelfth street surface lines,

and the Twelfth street station of the South Side Elevated Railroad.

On Michigan avenue, immediately south of the School, are to be found some of the best low-priced boarding and rooming places in the city. Satisfactory accommodations may be readily secured within a short distance of the School.

### EQUIPMENT

The entire east end of the building is occupied by lecture halls, of which there are four, arranged one above the other and having a seating capacity of from one hundred and twenty to three hundred persons.

The laboratories are five in number and together have work-stands sufficient for three hundred and thirty-two students working at the same time. Adjoining the halls and the laboratories are preparation rooms of ample size for the use of the professors and instructors. All the rooms have excellent light and ventilation and abundant blackboard space. The supply of compound microscopes, analytical balances and special apparatus is exceptionally complete and the collections of crude drugs, medicinal plants, chemicals and pharmaceutical products are varied and extensive.

The library contains about two thousand volumes, including, in addition to the usual works of reference, many rare books. Complete files of the leading pharmaceutical journals are an important feature.

### COURSE OF INSTRUCTION

The course of instruction is divided into a junior and a senior year, each seven months in length, and affords opportunity for a thorough technical training, such as is necessary for the successful practice of pharmacy or as a preparation for some special line of related work. The subjects taught are chemistry, general, pharmaceutical and analytical; pharmacy, theoretical, manufacturing and dispensing; botany; physiology and materia medica.

The system of teaching embraces lectures, illustrations, demonstrations, recitations, written and oral examinations and individual practice and personal instruction in the various laboratories, much time being devoted to this important part of the student's work.

#### ADMISSION AND GRADUATION

Applicants for admission must be at least sixteen years of age, and must furnish evidence of their ability to prosecute the work of the course successfully.

The preliminary education should be equivalent to that required for entrance to a good high school.

Students who have pursued courses of study in other colleges of pharmacy will be given credit for such portions of their work as are equivalent to the work required by this School.

The regular session opens September 25, 1906, and ends April 25, 1907.

The candidate for the degree of graduate in pharmacy must be twenty-one years of age, have had four years' practical experience in pharmacy, including the period of attendance at college, and must have attended two annual courses of instruction, the first of which may have been in some other reputable college or school of pharmacy. He must have attended regularly the laboratory and lecture courses of this School, and have satisfactorily finished the work required.

The candidate for the degree of graduate in pharmacy, who presents himself for final examination before he has attained the age or practical experience required, will, if successful, receive a certificate of having finished the course and will be awarded his diploma when the requirements of age and experience are complied with.

Persons competent to fulfill the general requirements of admission to the University may be granted credits upon other University courses for equivalent work completed at the School of Pharmacy.

Further information may be found in the special announcement of this school, which may be obtained from the ACTUARY, SCHOOL OF PHARMACY, Michigan Avenue and Twelfth street. Chicago, or the Registrar, University of Illinois, Urbana.

## SUMMER SESSION

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The Summer Session of 1906 will open Monday, June 18, continue nine weeks and close Friday, August 17. No examinations or other conditions will be placed upon admission. All who can do the work are welcome to get what they can from it. Those who can meet the requirements may matriculate in the University if they desire, and in that event, upon examination, may receive credits to apply upon regular University courses. Examination in and credit for some of the courses may be had at the end of six weeks by any who find it impossible to remain during the whole session. Instruction begins on June 19, and closes August 15.

The libraries, laboratories and gymnasiums of the University are open to students in the Summer Session.

### FEES

A tuition fee of twelve dollars (\$12) is required of all students in regular attendance at the session. This entitles one to admission to regular courses and to all special lectures. An extra laboratory fee is charged in some courses for materials used. Any single course may be taken for a fee of six dollars (\$6) and the laboratory fee, if there be any in connection with the course taken, a single course being understood to mean not more than two and a half hours. For further information address Thomas Arkle Clark, Director, or W. L. Pillsbury, Registrar, Urbana, Illinois.

## SPECIAL LECTURES

Courses of special lectures will be given by Professor S. A. Forbes, of the department of zoölogy; by President L. C. Lord, of the Eastern Illinois State Normal School; by Professor Franklin T. Baker, of Teachers' College, Columbia University; by Professor Charles A. McMurry, of California, Pennsylvania; by Professor W. J. Rolfe, editor of the Rolfe Shakespeare; by Professor Charles A. Bennett, of the Bradley Polytechnic Institute; and by Doctor Ernest F. Henderson, of Cambridge, Massachusetts.

## OUTLINE OF COURSES

## ART AND DESIGN

S 1. ELEMENTARY.—A course in form drawing from still life, cast and nature. *Two periods; daily; (2)*<sup>1</sup>. Miss CHAMBERLAIN, Miss ROSE.

S 2. WATER COLOR PAINTING.—Instruction in painting still-life, flowers and landscape will be offered those giving evidence of a fair ability in drawing. *Two periods; daily; (2)*. Miss CHAMBERLAIN, Miss ROSE.

S 3. TEACHER'S COURSE.—For supervisors of drawing and public school teachers. Lectures are given upon organization, equipment, and the administrative side of the supervisor. *First six weeks; three periods; daily; (3)*. Miss ROSE.

## ASTRONOMY

S 1. ELEMENTARY ASTRONOMY.—This is a course for beginners, and does not require mathematics. *Daily; (3)*. Assistant Professor STEBBINS.

S 2. PRACTICAL ASTRONOMY.—This course is designed to give the student some familiarity with the principal astronomical instruments and the methods of employing them in research. *Daily; (3)*. Assistant Professor STEBBINS.

## BOTANY

S E 1. ELEMENTARY COURSE.—Intended for those beginning the science as a laboratory and field-subject. *Daily; two periods; (2½)*. Assistant Professor HOTTES and Mr. BALLARD.

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<sup>1</sup>The figures in parentheses indicate the hours of credit. See page 208.

S 2. PLANT ANATOMY AND PHYSIOLOGY.—The apparatus set up and used in the course is intended to be such as is well adapted to high school work. *Daily; two periods; (2½)*. Assistant Professor HOTTES and Mr. BALLARD.

*Prerequisite:* S E 1, or its equivalent.

S 3. ADVANCED WORK.—In this course there will be no class organization and no formal lectures but abundant opportunity will be offered for individual work under supervision. *Daily; two periods; (2½)*. Assistant Professor HOTTES.

#### CHEMISTRY

S E 1. ELEMENTARY CHEMISTRY.—A course in general elementary chemistry consisting chiefly of recitations and laboratory work. *Daily; four periods; (5)*. Dr. BRYAN and Mr. CLARK.

S 2. DESCRIPTIVE INORGANIC CHEMISTRY.—This course is mainly devoted to a study of the metallic elements. *Daily, including Saturday; (3)*. Dr. BRYAN.

*Prerequisite:* Chemistry I.

S 2 a. TEACHERS' COURSE IN CHEMISTRY.—This course is open to teachers of chemistry only, and to those only by special arrangement with the instructor. *Daily; two periods; (2)*. Mr. CLARK.

*Prerequisite:* Chemistry I. 3a.

S 3 a. QUALITATIVE ANALYSIS.—*Daily including Saturday; four periods; (5)*. Dr. DEHN.

*Prerequisite:* Chemistry I.

S 3 b. QUALITATIVE ANALYSIS, MINOR.—A briefer course. *First five weeks. Daily, including Saturday; four periods; (2½)*. Dr. DEHN.

*Prerequisite:* Chemistry I.

S 4. ELEMENTS OF ORGANIC CHEMISTRY, MINOR.—A brief course in organic chemistry. *Last four weeks. Daily; four periods; (2½)*. Dr. DEHN.

*Prerequisite:* Chemistry I. 3b.

S 5 a. ELEMENTARY QUANTITATIVE ANALYSIS.—*Daily; four periods; (5)*. Assistant Professor LINCOLN.

#### DRAWING, GENERAL ENGINEERING

I. ELEMENTS OF DRAFTING.—Consists of lettering, free-hand sketching and working drawing. *Three periods daily; (4)*. Mr. McMASTER.

2. DESCRIPTIVE GEOMETRY.—*Three periods; daily; (4).* Mr. McMASTER.

*Prerequisite:* General Engineering Drawing 1.

### ECONOMICS

S 1. PRINCIPLES OF ECONOMICS.—This course gives students a general survey of the field of economics. *Daily; (2).* Professor ROBINSON.

S 2. ECONOMIC HISTORY OF THE UNITED STATES.—This course is an inquiry into the trend of our development as a nation and into the physical, economic, and, incidentally, the political forces which have directed and controlled it. The work of this course supplements the political history of the United States and will be helpful to all high school teachers who teach economics or the civil government or history of the United States. *Daily; (3).* Professor ROBINSON.

### EDUCATION

S 1. PRINCIPLES OF EDUCATION.—The basis of a scientific theory of education, critically considered, from the standpoint of the individual in his relation to the mass. *Daily; (2½).* Professor DEXTER.

S 2. HISTORY OF EDUCATION TO THE TIME OF THE REFORMATION.—*First six weeks; daily; (1½).* Professor DEXTER.

S 3. HISTORY OF EDUCATION SINCE THE REFORMATION.—*Last three weeks; daily; (1).* Professor DEXTER.

S 4. SCHOOL ORGANIZATION AND ADMINISTRATION.—*Daily; (2½).* Assistant Professor HOLLISTER.

S 5. SECONDARY SCHOOL MANAGEMENT.—*Daily; (2½).* Assistant Professor HOLLISTER.

S 6. PRESENT EDUCATIONAL PROBLEMS IN THE UNITED STATES.—*First six weeks; daily; (2).* Assistant Professor SISSON.

S 7. MODERN EDUCATIONAL THEORY.—The course includes a study of the principal ideas of Rousseau, Pestalozzi, Herbart, and Froebel, and the influence of these ideas upon subsequent educational thought. *First six weeks; daily; (2).* Assistant Professor SISSON.

### ENGLISH LITERATURE

S 3. SHAKSPERE.—Six plays will be read from the point of view of characterization, technique and language. The last three weeks will be devoted to the reading of some of the principal pre-Shaksperian dramas. *Daily; (2½).* Professor DODGE.

S 6. AMERICAN LITERATURE.—Some representative authors of the nineteenth century will be studied. *First six weeks; four times a week; (1½)*. Assistant Professor PAUL.

S 7. NINETEENTH CENTURY POETRY.—Special attention will be paid to Tennyson and Browning. *Four times a week; (2)*. Miss PILLSBURY.

S 8. HIGH SCHOOL ENGLISH.—Some of the books required for entrance to the University in English literature will be studied with reference to their use in the schoolroom. *First six weeks; three times a week; (1)*. Assistant Professor PAUL.

S 9. THE ENGLISH NOVEL.—The development of English prose fiction in the nineteenth century will be traced through the works of some of the leading authors. *Four times a week; (2)*. Miss PILLSBURY.

S 11. CONTEMPORARY WRITERS.—Some of the literary movements of the present day are traced in the works of living essayists and dramatists, with special reference to periodicals. *Twice a week; (1)*. Professor DODGE.

S 14. ELEMENTARY SHAKSPERE.—Rapid reading of a number of plays. During the last three weeks students may transfer to S 3. *First six weeks; daily; (2)*. Assistant Professor PAUL.

S 15. SELECT PERIODS OF ENGLISH LITERATURE.—This course and the preceding one may be taken as an equivalent of English 1, as outlined in the regular University catalog. *Four times a week; (2)*. Miss PILLSBURY.

S 16. ADVANCED OLD ENGLISH (ANGLO SAXON).—The first part of Beowulf will be read. Open to all who have had an elementary course. *Daily; (2½)*. Professor DODGE.

#### ENTOMOLOGY

S 1. GENERAL FIELD AND LABORATORY COURSE.—It is the special object of this course to open to the teacher of biology and of nature study the field of entomology in such a way that he may avail himself of its most important contents as material for high school instruction work and for economic work in the rural schools. A well equipped insectary is available, and frequent field excursions will be made under the leadership of the instructor. *Daily; (2½)*. Dr. FOLSOM.

## FRENCH

S 1. ELEMENTARY COURSE.—This course is designed primarily for beginners, but may also be taken by those who desire to review the elements of the language. *Daily; (2½)*. Professor OLIVER.

S 2. READING OF MODERN FRENCH.—A course in rapid reading of modern authors for students already well grounded in the grammar of the language. Advanced composition. Conversation. *Four times a week; (2)*. Professor OLIVER.

S 3. SUPPLEMENTARY WORK.—Under the direction of the instructor, competent students may supplement the work of either of the preceding courses, so as to make course S 1, the equivalent of course 1 of the regular University first semester, or course S 2, the equivalent of the first semester of course 2 of the regular University year. *Two hours a week will be given to conferences.. (1½ or 2)*. Professor OLIVER.

## GERMAN

S 1. BEGINNERS' COURSE.—Pronunciation, grammar, composition, reading of easy texts. *Daily, including Saturday; (3 or 4)*. Assistant Professor BROOKS.

S 2. INTERMEDIATE COURSE.—Grammar, syntax, composition, reading of texts. Open to those who have had S 1 or German 1 of the regular University year, or have from any source some knowledge of the language and its grammatical forms. *Five times a week; (2½ or 4)*. Dr. DAVIS.

S 3. PROSE READING.—Reading of narrative prose, sight translation, composition. Open to students who have had S 2 or German 3 of the regular year or who give evidence of satisfactory preparation for the course. *Four times a week; (2 or 4)*. Dr. DAVIS.

S 4. GRILLPARZER.—Reading of Grillparzer's Sappho and Der arme Spielmann, with some study of the poet's life. *M., W., F.; (1½ or 2)*. Assistant Professor BROOKS.

S 5. SCHILLER.—Reading of Schiller's Braut von Messina, and selected lyrics and ballads. Study of Schiller's life. *M., W., F.; (1½ or 2)*. Dr. DAVIS.

S 6. TEACHERS' COURSE.—Discussion of methods in German instruction and practical consideration of special difficulties. This course also includes some work in advanced composition and study of idiom. A considerable knowledge of German will be assumed. *M., W., F.; (1½ or 2)*. Assistant Professor BROOKS.

## GREEK

S 1. BEGINNERS' COURSE.—*Daily; (2½).* Dr. NEVILLE.

## HISTORY

S 1. THE MODERN HISTORY OF ENGLAND.—This is an outline course, planned with special reference to the needs of teachers in the secondary schools. *First six weeks; daily; (2).* Dr. HENDERSON.

S 2. THE FRENCH REVOLUTION.—This course is designed for more advanced students of European history. *First six weeks; daily; (2).* Dr. HENDERSON.

S 3. AMERICAN HISTORY, 1606—1789.—A general outline adapted especially to the needs of teachers. *Daily; (2½).* Professor GREENE, Mr. DICKERSON.

S 4. THE HISTORY OF ILLINOIS.—This subject is treated not from a special point of view but as illustrating the development of a typical state of the "Middle West." *Daily; (2½).* Professor GREENE, Mr. DICKERSON.

## HOUSEHOLD SCIENCE

S 1. FOOD.—The work in this course will follow in a general way the course in Household Arts as outlined in the State course of study. *Daily.* Miss WARDALL. (*No University credit.*)

S 2. THE HOUSE.—The plan, decoration, and care of the house. *Three periods a week.* Miss WARDALL. (*No University credit.*)

## LATIN

S E 1. COURSE FOR BEGINNERS.—*Daily; (2½).* Professor BARTON.

S E 2. CAESAR.—*Daily; (2½).* Dr. NEVILLE.

S E 3. CICERO.—*Daily; (2½).* Professor BARTON.

S 4. VERGIL.—Selections from the less commonly read portions of the *Aeneid*, the *Bucolics*, and *Georgics*. *M., W., F.; (1½).* Dr. NEVILLE.

S 5. PLAUTUS.—A survey of Latin Literature with particular attention to comedy. *M., W., F.; (1½).* Professor BARTON.

S 6. LATIN PROSE COMPOSITION.—The first four weeks will be devoted to the writing of isolated sentences illustrating the more difficult principles of the syntax of the Latin verb; the last five weeks, to the writing of simple continuous prose based on Cæsar and Cicero. *Tu., Th.; (1).* Dr. NEVILLE.

S 7. TEACHERS' COURSE.—*Tu., Th.; (1).* Professor BARTON.

## MANUAL TRAINING

S 1. MANUAL TRAINING FOR ELEMENTARY SCHOOLS.—A course in practical work in the essentials of several handicrafts adapted for the elementary school. *First six weeks; two periods; Daily.* Mr. BACON.

S 2. MANUAL TRAINING FOR HIGH SCHOOLS.—An advanced course in practical work for the first years of the high school, principally woodwork. *First six weeks; two periods; daily.* Mr. BACON.

S 3. THEORY OF MANUAL TRAINING.—In connection with and supplementary to the above courses, the theory of manual training will be considered in a series of lectures and discussions. *First six weeks; two periods, once a week.* Mr. BACON.

## MATHEMATICS

S E 1. ELEMENTARY ALGEBRA.—*Daily; (2½).* Mr. LYTLE.

S 2. ADVANCED ALGEBRA.—*Daily; (3).* Dr. COAR.

S E 3. PLANE GEOMETRY.—*Daily; (3).* Mr. PONZER.

S 4. SOLID GEOMETRY.—*Daily; (3).* Mr. MILNE.

S 5. ANALYTICAL GEOMETRY.—*Daily; (2½).* Mr. LYTLE.

S 6. DIFFERENTIAL CALCULUS.—*Daily; (2½ to 5).* Mr. PONZER.

S 7. INTEGRAL CALCULUS.—*Daily; (2½ to 5).* Mr. MILNE.

S 8. PLANE TRIGONOMETRY.—*Daily; (2).* Mr. MILNE.

S 10. THEORY OF EQUATIONS.—A continuation of the theory of equations given in college algebra. (Math. 1, 2). It is based on Burnside and Panton's *Theory of Equations*, Part I. *Daily; (3).* Mr. LYTLE.

S 15. SEMINARY AND THESIS.—*Hours to be arranged; (3).* Dr. COAR.

S 18. HIGHER PLANE CURVES.—This course includes the general theory of algebraic curves, together with the application of the theory of invariants to higher plane curves. Special study is made of curves of the third and fourth orders. *Daily; (3).* Dr. COAR.

S 30. TEACHER'S COURSE.—*Daily; (3).* Mr. PONZER.

## MECHANICS, THEORETICAL AND APPLIED

S 7. ANALYTICAL MECHANICS.—This course includes the first half of Analytical Mechanics as given in Maurer's *Technical Mechanics*. *Daily; (3).* Mr. PIERCE.

*Prerequisite:* Mathematics 7 and registration in Mathematics 9.

S 8. ANALYTICAL MECHANICS.—This course includes the second half of Analytical Mechanics as given in Maurer's Technical Mechanics. *Daily; (2½).* Mr. PIERCE.

*Prerequisite:* Mathematics 9 and T. and A. M. 7.

S 9. RESISTANCE OF MATERIALS.—This course covers the same ground both in text-book, problem work and in experiments in the materials testing laboratory as T. and A. M. 9. *Daily in class room and two double periods in laboratory; (3½).* Mr. MOORE.

*Prerequisite:* T. and A. M. 7 and registration in T. and A. M. 8.

### MECHANICAL ENGINEERING

S 1. (a) WOOD SHOP AND FOUNDRY PRACTICE.—*Daily; (3).* Mr. SCROGGIN, Mr. ELLIS.

S 1. (b) FORGE SHOP.—This work will include a series of exercises in forging, welding, tempering and annealing. *Six hours a week; (1).* Mr. SCROGGIN.

S 2. MACHINE SHOP PRACTICE.—*Fifteen hours a week; (2½).* Mr. LANHAM.

### MUSIC

S A. HISTORY OF MUSIC.—Lectures on the development of Music, referring especially to the rise of polyphony and dramatic music, the origin and progress of the oratorio, the evolution of instruments and instrumental forms, and studies of the lives of composers. Assigned collateral readings. *Four periods a week; (2).* Mr. SCHWARTZ.

S B. HISTORY OF MUSIC.—This course is designed for the general student and the musical amateur. The subjects of the evolution of notation, the history of singing, and the history of musical instruments will be taken up. *Once a week; (½).* Mr. SCHWARTZ.

S 16. COURSE FOR THE VIOLIN.—Students may arrange for individual instruction upon the violin. Mr. SCHWARTZ.

### PHILOSOPHY

S 1. OUTLINES OF PHILOSOPHY.—A general introduction to philosophy and its problems. *Daily; (2½).* Professor DANIELS.

S 2. ETHICS.—A study of the principal problems and theories of conduct. *M., W., F., (1½).* Professor DANIELS.

S 3. PHILOSOPHY OF NATURE.—The relation of philosophy to scientific conception. Man's place in nature. The views of Clifford, Pearson, Ostwald, and other modern writers. *Tu., Th., (1).* Professor DANIELS.

## PHYSICS

S 2 (a). GENERAL PHYSICS.—Lectures with experimental illustrations and recitations. *Daily*; Assistant Professor KNIPP.

*Prerequisite:* Plane geometry, and high school algebra.

S 2 (b). GENERAL PHYSICS LABORATORY.—A laboratory course in heat, light and sound to accompany S 2 (a). *Daily*; (11-2). Mr. SLUSS and Mr. SYPE.

*Prerequisite:* Plane geometry, and high school algebra.

S 3. PHYSICAL MEASUREMENTS.—This work is open to students having taken Physics 1, or its equivalent. Mr. SLUSS and Mr. SYPE.

S E 4. TEACHERS' COURSE.—1. Manipulation with glass and metals, including construction of simple apparatus; 2. Discussion of such topics as text-books, note-books, apparatus, catalogs, etc. Assistant Professor KNIPP.

## PHYSICAL TRAINING

## FOR WOMEN

1. PRACTICE.—Elementary and corrective gymnastics, marching, swedish free exercise, dumb-bells, clubs, wands, fancy steps, esthetic dancing, Delsarte movements, simple exercises on various pieces of apparatus, tennis, basket-ball, hockey, golf, swimming. *Daily*. Mrs. LINCOLN.

2. PERSONAL HYGIENE.—This course considers personal health and those practical hygienic problems of every day life. *Two periods a week*. Miss ELWELL.

3. PRACTICE.—For teachers who desire special instruction in theory and practice in particular lines of work. *Daily*. Mrs. LINCOLN, Miss ELWELL.

## FOR MEN

S 1. GYMNASIUM PRACTICE.—Setting up exercises, practical elementary class drills with dumb-bells, wands, clubs, and chest weights, and elementary heavy apparatus work. *Three periods a week*. Mr. HANA.

S 2. GYMNASIUM PRACTICE.—Intermediate and advanced heavy apparatus work. *Three periods a week*. Mr. HANA.

S 3. LECTURES.—Personal hygiene. *Once a week*. Mr. HANA.

S 4. SWIMMING.—The large pool in the Gymnasium offers ample facilities for swimming. Mr. HANA.

## PSYCHOLOGY

S 1. ELEMENTARY PSYCHOLOGY.—*Daily; (2½)*. Assistant Professor Sisson.

S 2. INTRODUCTION TO EXPERIMENTAL PSYCHOLOGY.—This course will take up some of the more simple experiments in the field of the senses. *One lecture a week, and two laboratory periods; (1)*. Assistant Professor COLVIN.

S. 3 CHILD STUDY.—It is the plan of this course to take up in their natural order, the various developmental stages of the human mind from the earliest days of infancy. *Three times a week; (1½)*. Associate Professor COLVIN.

## RHETORIC

S 1. RHETORIC AND THEMES.—Practice in writing of numerous themes. *Daily; (3)*. Professor CLARK, Mr. SCOTT.

S 3. DAILY THEMES.—Short themes, from one to two pages in length, every day, with exercises not to exceed four pages in length every fortnight. Bates' Talks on Writing English. (First series). *Three meetings a week; (2)*. Professor CLARK.

S 4. ENGLISH COMPOSITION AND LITERATURE.—The study of rhetorical principles as seen in literary masterpieces. The reading and analysis of the essays of Lamb, Newman, and Arnold. Two three-pages themes a week, and one long exercise. *Four meetings a week; (2)*. Mr. FOX.

S 5. EXTEMPORANEOUS SPEAKING.—The course is divided equally between (a), serious narration, description, exposition and argumentation and (b) lighter speeches of introduction and after dinner speeches. *Two periods a week; (1)*; Mr. ADAMS.

S 7. PUBLIC SPEAKING.—A study of the principles underlying public speaking, supplemented by exercises in correct breathing, vocalization, action and position. Text-book and declamations; *Four periods a week; (2)*. Mr. ADAMS.

S 8. THEME CORRECTING.—A course primarily for teachers of English composition. The object of the course is to develop the most helpful and suggestive methods of correcting themes. *First six weeks; three meetings a week; (1)*. Professor CLARK.

S 20. ADVANCED INTERPRETATIVE READING.—Intended primarily for high school teachers of English. *Daily; (3)*. Mr. ADAMS.

S 21. THE FORMS OF DISCOURSE.—A study of the principles of narration, description, exposition and argumentation. *Daily; (3)*. Mr. FOX.

## ZoöLOGY

S 1 or S E 1. ELEMENTARY ZoöLOGY.—In this course types of vertebrate and of invertebrate animals will be studied from the ecological, morphological, and physiological points of view. *Daily; (2½)*. Mr. GROSS.

S 2. 'TEACHERS' COURSE.—This is a course of selected matter in pedagogy technique, field work, and physiology, as applied to zoölogy. The following topics will be treated as fully as time permits:

1. The general principles of zoölogical instruction.
2. The collection, preparation, and preservation of material for class work, and the properties of a few selected preservatives.
3. The student's field work will consist either of the observation and identification of birds or of the ecological study of an aquatic environment as in S. 3.
4. The physiological and experimental study of type animals with the class in S 1. *Daily; (2½)*. Dr. PETERS.

S 3. ECOLOGY AND PHYSIOLOGY OF ANIMALS.—In this course a study will be made of the manner in which the various conditions, under which an animal lives, influence its life processes. Field observations and some measurements will be made of the natural conditions, both biological and physical, which a body of water in this vicinity provides for animal life. *Daily; (2½)*. Dr. PETERS

# THE AGRICULTURAL EXPERIMENT STATION

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## STAFF

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EDMUND JANES JAMES, PH.D., LL.D., PRESIDENT.

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EUGENE DAVENPORT, M. AGR., DIRECTOR.

CYRIL G. HOPKINS, PH.D., VICE-DIRECTOR.

THOMAS J. BURRILL, PH.D., LL.D., Botanist.

STEPHEN A. FORBES, PH.D., Consulting Entomologist.

DONALD MCINTOSH, V.S., Consulting Veterinarian.

CATHERINE MCCALLUM MCINTYRE, Secretary.

### *In Agronomy—*

C. G. HOPKINS, PH.D., Professor and Chief.

*1001 South Wright Street, C.*

L. H. SMITH, M.S., Assistant Chief, Chemistry and Plant Breeding.

*1106 West Oregon Street, U.*

J. G. MOSIER, B.S., Assistant Chief, Soil Physics.

*907 West Illinois Street, U.*

J. H. PETTIT, PH.B., First Assistant, Soil Fertility.

*914½ West California Avenue, U.*

A. N. HUME, B.S., M.S., First Assistant, Crop Production.

*506 West High Street, U.*

CLIFFORD WILLIS, Sc.B., First Assistant, Soil Physics.

*903 West High Street, U.*

W. F. PATE, B.S., Assistant, Chemistry.

*901 West Illinois Street, U.*

H. H. LOVE, B.S., Assistant, Chemistry.

*1017 West Oregon Street, U.*

J. E. READHIMER, B.S., Superintendent, Soil Experiment Fields.

*311 East Springfield Avenue, U.*

ANDREW YSTGARD, B.S., Assistant, Chemistry.

*901 West Illinois Street, U.*

R. W. STARK, B.S., Assistant, Chemistry.

*903 West California Avenue, U.*

*In Animal Husbandry—*

H. W. MUMFORD, B.S., Professor and Chief.

*Experiment Station Farm, U.*

L. D. HALL, B.S., First Assistant, Animal Husbandry.

*111 East Chalmers Street, U.*

William Dietrich, B.S.A., First Assistant, Swine Husbandry.

*701 West California Avenue, U.*

R. C. OBRECHT, B.S.A., First Assistant, Horses.

*1016 Nevada Street, U.*

E. S. GOOD, B.S., Assistant, Animal Husbandry.

*1007 West Illinois Street, U.*

*In Dairy Husbandry—*

W. J. FRASER, B.S., M.S., Professor and Chief.

*1003 South Wright Street, C.*

C. E. LEE, B.S., First Assistant, Dairy Manufactures.

*510 West Healy Street, C.*

J. M. TRUEMAN, B.S., First Assistant, Dairy Husbandry.

*501 Daniel Street, C.*

C. C. HAYDEN, B.S.A., Assistant, Dairy Husbandry.

*906 West California Avenue, U.*

H. A. HOPPER, B.S.A., Assistant, Dairy Husbandry.

*906 West California Avenue, U.*

*In Horticulture—*

J. C. BLAIR, Professor and Chief. *810 West Oregon Street, U.*

C. S. CRANDALL, M.S., Assistant Chief, Pomology.

*1106 West Oregon Street, U.*

J. W. LLOYD, M.S.A., Assistant Chief, Olericulture.

*1005 South Wright Street, C.*

J. R. SHINN, B.S., Field Assistant, Pomology.

*1106 West Oregon Street, U.*

*In Botany—*

T. J. BURRILL, PH.D., LL.D., Professor.

*1007 West Green Street, U.*

C. F. HOTTES, PH.D., Chief, Vegetable Pathology.

*915 West California Avenue, U.*

J. T. BARRETT, A.B., Assistant, Botany.

*203 West Stoughton Street, U.*

By an act approved March 2, 1887, the national government appropriated \$15,000 per annum to each state

for the purpose of establishing and maintaining, in connection with the colleges founded upon the congressional act of 1862, agricultural experiment stations, "to aid in acquiring and diffusing among the people of the United States useful and practical information on subjects connected with agriculture, and to promote scientific investigation and experiment respecting the principles and applications of agricultural science." Under this provision the *Agricultural Experiment Station* for Illinois was founded in 1888 and placed under the direction of the Trustees of the University, and a part of the University farm, with buildings, was assigned for its use.

The Federal grants to the Station have been liberally supplemented with state appropriations, until its revenues have become the largest of those of similar institutions throughout the world.

Investigations are conducted in the growing and marketing of orchard fruits, the methods of production of meats and of dairy goods, the principles of animal breeding and nutrition, and in the improvement and the economic production of crops.

All the principal types of soil of the state are being studied in the laboratory under glass and in the field. A soil survey is in progress which when finished will map and describe the soil of every farm of the state down to an area of ten acres.

Twenty to thirty fields and orchards are rented in different portions of the state for the study of local problems, and assistants are constantly on the road for the conduct of experiments or to give instruction to producer or consumer.

The results of investigation are published in bulletins, which are issued in editions of 40,000, and distributed free of charge.

Much of this work is of exceptional interest to students, especially of graduate grade, and it is freely available for this purpose, so far as is consistent with the interests of the Station.

# ENGINEERING EXPERIMENT STATION

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## STAFF

EDMUND JANES JAMES, PH.D., LL.D., PRESIDENT.

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LESTER PAIGE BRECKENRIDGE, PH.B., DIRECTOR.

Besides the Director, the staff includes the heads of departments<sup>1</sup> of the College of Engineering, and the following

### SPECIAL INVESTIGATORS

ROY W. RUTT, B.S., Assistant to the Director and Secretary to the Staff. *609 South Busey Avenue, U.*

CHARLES H. HURD, B.S., Assistant in Laboratory of Applied Mechanics. *1101½ West California Avenue, U.*

HENRY BERNHARD DIRKS, M.E., Assistant in Mechanical Technology. *202 John Street, C.*

MAURICE L. CARR, B.S., Assistant in Physics. *703 South Third Street, C.*

DUFF A. ABRAMS, B.S., Assistant in Laboratory of Applied Mechanics. *703 South Third Street, C.*

FRANK K. OVITZ, B.S., Assistant in Chemistry. *1105 West Oregon Street, U.*

The *Engineering Experiment Station* was established by action of the Board of Trustees, December 8, 1903. It is the first and, so far as known, the only experiment station connected with any college of engineering in this country. Its purposes are the stimulation and elevation of engineering education, and the study of problems of special importance to professional engineers, and to the manufacturing, railway, mining, industrial and other in-

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<sup>1</sup>For the names of these heads of departments, see Faculty of the College of Engineering, pp. 121ff.

terests of importance to the public welfare of the State and the country. The laboratories of the College of Engineering are being equipped with additional apparatus and facilities to further such research. The practical nature of the investigations and their adaptation to present-day needs are assured by means of conferences with committees of the leaders of the State's industrial activities.

The control of the Station is vested in the heads of the several departments of the College of Engineering. These constitute the Station Staff, and, with the Director, determine the character and extent of the investigations to be undertaken.

Reports of experiments on reinforced concrete and high-speed tool steels have already been published and acknowledged to be contributions of great value to engineering science.

# STATE LABORATORY OF NATURAL HISTORY

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## STAFF

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EDMUND JANES JAMES, PH.D., LL.D., PRESIDENT.

---

Professor STEPHEN ALFRED FORBES, PH.D., LL.D., DIRECTOR.

CHARLES ARTHUR HART, Systematic Entomologist.

*923 West Green Street, U.*

MARY JANE SNYDER, Secretary.

*504 East Daniel Street, C.*

ROBERT EARL RICHARDSON, A.M., Assistant on Biological Survey.

*1002 West Green Street, U.*

FRANK ELMER WOOD, A.B., Assistant in Ichthyology.

*1301 West Springfield Avenue, U.*

EARL QUINTER SNIDER, Accountant.

*1002 West Oregon Street, U.*

EDNA LUCY GOSS, B.L.S., Librarian.

*901½ West California Avenue, U.*

In 1885 the legislature passed a bill transferring the *State Laboratory of Natural History* from the Illinois State Normal University to the University of Illinois. This laboratory was created for the purpose of making a natural history survey of the state, the results of which should be published in a series of bulletins and reports, and for the allied purpose of furnishing specimens illustrative of the flora and fauna of the state to the public schools and to the state museum. For these purposes direct appropriations are made by the legislature from session to session. A large amount of material has been collected, and extended publications have been made in both the forms above mentioned.

# STATE WATER SURVEY

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## STAFF

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EDMUND J. JAMES, PH.D., LL.D., PRESIDENT.

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Associate Professor EDWARD BARTOW, PH.D., DIRECTOR.

Professor THOMAS JONATHAN BURRILL, PH.D., Consulting Bacteriologist.

Professor SAMUEL WILSON PARR, M.S., Consulting Chemist.

JUSTA MORRIS LINDGREN, A.B., Assistant Chemist.

WALTER GELVIN BAIN, A.B., M.D., Assistant Bacteriologist.

The Chemical Survey of the waters of the state was begun in the latter part of September, 1895. In June, 1897, the Legislature authorized the continuance of the work and directed the Trustees of the University to establish a chemical and biological survey of the waters of the state. The purpose of the Survey is to collect facts and data concerning the water supplies of the state; to make such chemical and biological examination and analyses as shall serve to demonstrate their sanitary condition; to determine standards of purity of drinking waters for the various sections of the state, and to publish the results of these investigations.

The Survey is a division of the department of chemistry of the University of Illinois, and special laboratories are equipped in the Chemical Laboratory for conducting the work. Analyses of water for citizens of the state are made on request.

# THE STATE ENTOMOLOGIST'S OFFICE

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## STAFF

EDMUND J. JAMES, PH.D., LL.D., PRESIDENT.

Professor STEPHEN ALFRED FORBES, PH.D., LL.D., STATE ENTOMOLOGIST. *1209 West Springfield Avenue, U.*

ESTES PARK TAYLOR, B.S., Field Entomologist and Chief Horticultural Inspector. *806 South Second Street, C.*

EDWARD OWEN GUERRANT KELLY, M.S., Field Entomologist. *501 Chalmers Street, C.*

JAMES ALEXANDER WEST, A.M., Entomological Assistant.

ERNEST HARLEN SCOTT, Stenographer. *904 West Stoughton Street, U.*

The work of the State Entomologist's Office has been done at the University of Illinois since January, 1885; and by legislative enactment in 1899 it was permanently established at the University, the Trustees of which are required by that act to provide for the Entomologist and his assistants such office and laboratory rooms as may be necessary to the performance of their duties.

It is the function of this officer to investigate the entomology of Illinois, and particularly to study the insects injurious to the horticulture and agriculture of the state, and to prepare reports of his researches and discoveries in entomology for publication by the state. He is also required to inspect and certify annually all Illinois nurseries, and to maintain a general supervision of the horticultural property of the state as respects its infestation by dangerous insects and its infection with contagious plant diseases.

Twenty-three reports have now been published by the Entomologist, ten of them since the transfer of his office to the University.

# THE STATE GEOLOGICAL SURVEY

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## STAFF

EDMUND J. JAMES, PH.D., LL.D., PRESIDENT

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- H. FOSTER BAIN, DIRECTOR, *907 West California Avenue, U.*  
EDWARD BARTOW, Consulting Chemist in Water Analysis.  
*917 West Green Street, U.*  
U. S. GRANT, Consulting Geologist in Lead and Zinc Work, North-  
western University, Evanston, Ill.  
S. W. PARR, Consulting Chemist in Coal Investigations.  
*919 West Green Street, U.*  
C. W. ROLFE, Consulting Geologist in Clay Investigations.  
*601 John Street, C.*  
R. D. SALISBURY, Consulting Geologist in Preparation of Educational  
Series. *University of Chicago, Chicago, Ill.*  
W. W. ATWOOD, Geologist, *University of Chicago, Chicago, Ill.*  
STUART WELLER, Geologist, *University of Chicago, Chicago, Ill.*  
J. A. UDDEN, Geologist, *Augustana College, Rock Island, Ill.*  
R. C. PURDY, Ceramist. *609 South Randolph Street, C.*  
H. B. FOX, Assistant Geologist. *909 West Oregon Street, U.*  
A. W. LEWIS, Assistant Geologist. *714 West Green Street, U.*  
F. B. VAN HORN, Assistant Geologist. *714 West Green Street, U.*  
F. F. GROUT, Assistant Chemist. *714 West Green Street, U.*

The Forty-fourth General Assembly passed an act, in force July 1, 1905, providing for the establishment at the University of Illinois of a Bureau, to be known as the State Geological Survey. Rooms were placed at its disposal in the Chemical Laboratory, and the work was soon taken up. The Bureau is under the control of a commission, of which the President of the University is an *ex-officio* member.

The purpose of the Survey is primarily the study and exploitation of the mineral resources of Illinois. Field parties are organized for the investigation of clay, coal, stone, artesian water, cement materials, road materials and general scientific investigations.

The Bureau is charged also with the duty of making a complete topographical and geological survey of the state. The topographical work will lead to the publication of a series of bulletins and of maps, eventually covering the entire state.

The laboratory work is done in connection with various department laboratories of the University. The equipment includes a working library, maps and a rapidly growing collection, illustrating the geological and the economical resources of the State.

## GENERAL DESCRIPTION OF COURSES

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Following the description of each course of instruction will be found the necessary requirements, if any, for admission to that particular course. Careful attention must be given to these requirements and to the sequence of studies thus indicated. For instance, under Architecture 4, for students of the College of Engineering, page 218, there are required "Physics 2a and 2b," and "Architecture 2 and 3." Turning now to these subjects, it is found that physics 1 and 3 are the major course of one year, architecture 2 is wood construction, and architecture 3 is metal construction. All these subjects must be satisfactorily passed before admission may be had to the class in architecture 4.

In case a course not required for graduation is selected by less than five students, the right to withdraw the same for the semester is reserved.

Graduate courses of instruction are described under the various subjects, as a rule after the undergraduate courses. They are numbered upward from 100. Other courses may often be arranged by the professors in charge to meet the special requirements of students.

Credit is reckoned in semester "hours," or simply "hours." An "hour" is either one class period a week for one semester, each class period presupposing two hours' preparation by the student, or the equivalent in laboratory, shop, or drawing room.

The semester, the days, and the hour of the day during which each course is given, and the number of credit "hours" per semester for which the course counts, are

shown after each course, as follows: The semester is indicated by the Roman numerals I., II.; the days by the initial letters of the days of the week; the hour of the day by Arabic figures; and the amount of credit, by Arabic figures in parenthesis. For example, after the description of Astronomy 5 occur the abbreviations I.; M., W., F.; 1; (3). These are to be read first semester, Monday, Wednesday, and Friday. one o'clock, three hours' credit.

## AGRONOMY

The department of agronomy, with a staff of six, gives instruction in those subjects which relate especially to the field and its affairs, as drainage, farm machinery, field crops, the physics and bacteriology of the soil, manures, rotation and fertility, the history of agriculture. farm management, and comparative agriculture.

1. DRAINAGE AND IRRIGATION.—Location of drains and irrigation conduits, leveling, digging, laying tile and pipes, filling, and subsequent care; cost of construction and efficiency; sewers for the disposal of waste water from farm buildings and the sewage from kitchen and toilet; farm water pipes, pipe and thread cutting. Class work, laboratory and field practice. *I., first half; daily 10-12; or II., second half; daily; 10-12; (2½).* Mr. CRANE.

2. FIELD MACHINERY.—The tools and machinery of the field,—plows, harrows, and hoes; seeders, drills, corn and potato planters; cultivators, weeders and spraying machines; mowers, rakes, self-binders, corn harvesters and huskers, potato diggers, wagons, etc. Class work and laboratory practice, including setting up and testing machines, noting construction and elements necessary for successful work. *I., Sections A and B will alternate with Mechanical Engineering 1; i. e., M., W., F. one week, and Tu., Th. the next; 8, 9, 10; Section C., Tu., Th., 1, 2, and Sat. 8, 9, 10; (3).* Mr. CRANE.

3. FARM POWER MACHINERY.—Horse-power, gas engines, traction engines, windmills, pumps, corn shellers, feed cutters, grinders, and threshing machines,—their construction, operation, efficiency, durability, and care. Class room and laboratory work. *I., Sections A and B will alternate with Mechanical Engineering 1; i. e., M.,*

W., F. one week, and Tu., Th. the next; 8, 9, 10; *Section C., Tu., Th., 1, 2 and Sat. 8, 9, 10; (3).* Mr. CRANE.

4. FARM BUILDINGS, FENCES, AND ROADS.—The arrangement, design, construction, and cost of farm buildings, especially of barns, granaries and silos; the different kinds of fences, their cost, construction, efficiency, and durability; cost and construction of roads and walks. Class work and practice in designing and drafting buildings, operating fence-building machines, setting and testing fence posts, making walks, etc. *II., daily; 1-3; (5).* Mr. CRANE.

5. SEEDS.—Quality and Preservation. Judging of corn, oats, wheat, etc., and a study of market grades of farm crops; shrinkage of grain and care of stored crops to prevent injury and loss. Class and laboratory work. *I., first half; daily; section A, 8-10; section B, 1-3; (2½).* Mr. CENTER.

6. SEEDS.—Germination and Growth. Vitality and germination of seeds, preservation of seeds, methods of seeding; conditions of plant growth; peculiarities of the different agricultural plants in respect to structure, habits, and requirements for successful growth; enemies to plant growth,—weeds and weed seeds, their identification and methods of destruction, fungous diseases, such as smut of oats and wheat, and blight, scab, and rot of potatoes, methods of prevention; insects injurious to farm crops and how to combat them. Class room, laboratory, and field work. *II., first half; daily; section A, 8-10; section B, 1-3; (2½).* Mr. HUME.

7. SPECIAL CROPS.—A special study of farm crops. Rotation or succession of crops with special reference to systematic farming and economic distribution of labor, methods of culture, cost of production, consumption of products and residues or by-products. Class work supplemented by laboratory work and a study of the results of previous experiments; special reference to Illinois conditions. *I., daily; 10-12; (5).* Mr. HUME.

*Prerequisite:* Agronomy 6.

8. FIELD EXPERIMENTS.—Special work by the students, conducted in the field. This work consists in testing varieties of corn, oats, wheat, potatoes, and other farm crops; methods of planting corn, seeding grains, grasses, and other forage crops; culture of corn, potatoes, and sugar beets; practice in treating oats and wheat for smut, and potatoes for scab, and studying the effects upon the crops; combating chinch bugs and other injurious insects. Other practical experiments may be arranged with the instructor. *II., and summer vacation; arrange time; (2½-5).* Mr. HUME.

*Prerequisite:* Agronomy 7, 12.

9. SOIL PHYSICS AND MANAGEMENT.—This course is designed better to prepare the student to understand the effects of the different methods of treatment of soils and the influence of these methods upon moisture, texture, aeration, fertility, and production. It comprises a review of the origin of soils and the various methods of soil formation; a study of their mechanical composition and classification; of soil moisture and means for conserving it; of soil texture as affecting capillarity, osmosis, diffusion, and as affected by plowing, harrowing, cultivating, rolling, and cropping; of the wasting of soils by washing; fall or spring plowing and drainage as affecting moisture, temperatures, and root development. The work of the class room is supplemented by laboratory work, comprising the determination of such questions as real and apparent specific gravity, water holding capacity and capillary power of various soils; also the study of the physical effects of different systems of rotation and of continuous cropping with various crops, and the mechanical analysis of soils. *I.; daily; Section A, 8-10; Section B, 10-12; (5).* Assistant Professor MOSIER and Mr. WILLIS.

*Prerequisite:* Chemistry I, or two credits in entrance Physics, and one year of University work.

10. SPECIAL WORK IN SOIL PHYSICS.—This course is intended for students wishing to make a further study of the physical properties of special soils, including the mechanical analysis of such soils by the means of centrifugal or centrifugal elutriator method. It also includes a study in the field of the effects of discing, harrowing, and rolling, time and depth of cultivation, with special reference to soil moisture and temperature. This work will be supplemented by a study of experiments that have been conducted along these lines. *I or II. Arrange time; (2-5).* Assistant Professor MOSIER.

*Prerequisite:* Agronomy 9.

12. SOIL FERTILITY, FERTILIZERS, ROTATIONS.—The influence of fertility, natural or supplied, upon the yield of various crops; the effect of different crops upon the soil and upon succeeding crops; different rotations and the ultimate effect of different systems of farming upon the fertility and productive capacity of soils. The above will be supplemented by a laboratory study of manures and fertilizers, their composition and their agricultural and commercial value; of soils cropped continuously with different crops and with a series of crops; of the fertility of soils of different types, or

classes from different sections of Illinois. *II., daily; 8-10; (5).* Professor HOPKINS and Mr. PETTIT.

*Prerequisite:* Chemistry 13a; Agronomy 6, 9.

13. INVESTIGATION OF THE FERTILITY OF SPECIAL SOILS.—This course is primarily designed to enable the student to study the fertility of those special soils in which he may be particularly interested, and to become familiar with the correct principles and methods of such investigations. It will include the determination of the nature and quantity of the elements of fertility in the soils investigated, the effect upon various crops of different fertilizers added to the soils, as determined by pot cultures, and, where possible, by plot experiments. This work will be supplemented by a systematic study of the work of experiment stations and experimenters along these lines of investigations. *I., II.; arrange time, (2-5).* Professor HOPKINS and M. PETTIT.

*Prerequisite:* Agronomy 12.

15. COMPARATIVE AGRICULTURE.—Reasons for the differences in the agriculture of different times, peoples, and countries, and why it is that the agriculture of a region or of a farm is a definite and individual problem, together with the need of harmonizing agricultural practice with natural conditions as well as with the findings of science. Circumstances that influence agricultural practice, as soil, climate, machinery, race, custom, land tenure, etc., and what is best under different conditions. Lectures; *II. F.; II; (1).* Professor DAVENPORT.

*Prerequisite:* Two years' University work.

16. GERMAN AGRICULTURAL READINGS.—A study of the latest agricultural experiments and investigations published in the German language, special attention being given to soils and crops. The current numbers of German journals of agricultural science will be required and used as a text. This course is designed to give the student a broader knowledge of the recent advances in scientific agriculture, and, incidentally, it will aid him in making a practical application of a foreign language. It is recommended that it be taken after Agronomy 12. *II.; M., W., II; (2).* Professor HOPKINS.

*Prerequisite:* Two years' work in German.

17. FARM MACHINERY.—Expert work in Farm Machinery, chiefly with Harvesting Machinery and Gasoline Engines. This course is designed for students preparing themselves for experting these

machines in the field. *II.*; *first half or second half*; *section A*, 8-10; *section B*, 10-12; *section C*, 1-3; ( $2\frac{1}{2}$ ).

*Prerequisite*: Agronomy 2.

18. INVESTIGATION AND THESIS.—This course varies in the subject matter according to the lines in which theses are written. *I.*, *II.*; *arrange time*; (5-10).

19. FARMERS' INSTITUTE MANAGEMENT.—A study of the Farmers' Institute as a factor in our system of public education. This course is designed to set forth principles underlying the organization and conduct of Farmers Institutes and agricultural associations and to systemize into definite lines the knowledge acquired in College to the end that the student may render more distinct service in institute and agricultural associations. Lectures; assigned readings and parliamentary practice. *II.*; *second half*; *M., W.*, 3; (1). Mr. RANKIN.

20. RESEARCH WORK IN FARM MECHANICS. *I* or *II.* ( $2\frac{1}{2}$ -5). Consult instructor regarding time and requirements. Mr. CRANE.

### COURSES FOR GRADUATES

101. SYSTEMS OF SOIL INVESTIGATION; SOURCES OF ERROR AND METHODS OF CONTROL, INTERPRETATION OF RESULTS. Professor HOPKINS.

102. THE WORLD'S SUPPLY OF PLANT FOOD MATERIALS, INCLUDING METHODS OF UTILIZATION. Professor HOPKINS.

103. DIFFERENT SYSTEMS OF AGRICULTURAL PRACTICE AND THEIR ULTIMATE EFFECT UPON THE SOIL. Professor HOPKINS.

104. DRAINAGE WATERS; SURFACE AND SUB-DRAINAGE, WITH SPECIAL REFERENCE TO SOIL FERTILITY. Mr. PETTIT.

105. DETAILED STUDY OF SOIL INVESTIGATIONS IN PROGRESS IN ILLINOIS. Professor HOPKINS, Mr. PETTIT.

106. SOIL TYPES; METHODS OF SURVEYING AND MAPPING.—The work may include field practice. Assistant Professor MOSIER.

107. EROSION OF SOILS BY SURFACE WASHING AND METHODS OF PREVENTION. Assistant Professor MOSIER.

108. THE MECHANICAL COMPOSITION OF SOILS; ITS INFLUENCE UPON GRANULATION, ABSORPTION AND RETENTION OF MOISTURE, AND OTHER PHYSICAL PROPERTIES AFFECTING CROP PRODUCTION. Assistant Professor MOSIER.

109. EXPERIMENTATION IN THE PRODUCTION OF FIELD CROPS.—

The work may include actual practice in planning and conducting field experiments. Mr. HUME.

110. WEEDS: ADVANCED STUDY AND INVESTIGATION RELATING TO THEIR DISTRIBUTION, IDENTIFICATION, AND METHODS OF ERADICATION, AND PREVENTION OF DISSEMINATION. Mr. HUME.

111. THE SELECTION OF SEEDS; METHODS OF DETERMINING QUALITY. Mr. HUME.

112. PLANT BREEDING, INCLUDING A DETAILED STUDY OF EXPERIMENTS AT THIS STATION, AND OF METHODS AND RESULTS REPORTED FROM OTHER STATES AND FROM FOREIGN COUNTRIES. Assistant Professor SMITH.

113. MACHINE DESIGNING; ADVANCED STUDY OF FARM IMPLEMENTS WITH SPECIAL REFERENCE TO POSSIBLE IMPROVEMENTS. Mr. CRANE.

## ANIMAL HUSBANDRY

In this department five instructors give courses covering the separate study of sheep, swine, and beef cattle, and their products; heavy and light horses, with their care and training; the management of farm herds, and the principles and practice of feeding and of breeding.

I. SHEEP, MUTTON, AND WOOL.—The different grades of wool and their uses in manufactures, together with a critical examination of animals for mutton, wool, and breeding purposes. The development and characteristics of the several breeds; the most successful methods of flock-masters, and the production of mutton and wool for the markets of the world. Lectures, assigned readings, and extensive practice in judging. *II.; second half; daily; section A, 1; section B, 2; (2½).* Mr. COFFEY.

*Prerequisite:* Animal Husbandry 21.

2. SWINE.—This course includes a study of three phases of the swine industry as follows:

(a) A study of the market classes; prime heavy, butcher, packing, light hogs, and pigs, together with the various grades of the same. The value of each grade according to current market reports. Extensive practice in judging the above.

(b) Pork and bacon production from the standpoint of market requirements and the economy of production from the standpoint of the producer. The breeding, housing, care, and feeding of swine for breeding and for show purposes.

(c) Breeds of swine, origin, development, and characteristics together with extensive practice in judging.

*Lectures and reference readings; daily; II.; section A, 1. section B, 9; (5). Mr. DIETRICH.*

*Prerequisite:* Animal Husbandry 21.

4 and 5. MARKET CLASSES OF HORSES.—An outline of the market classes of horses, including draft horses, chunks, business, wagon and express horses, carriage horses, race and road horses, and saddle horses. A study of the conformation of the horse from the standpoint of market requirements. Exhaustive practice in judging; lectures and assigned readings. *II.; first half; daily; section A, 1; section B, 2; (2½). Mr. OBRECHT.*

7. PRINCIPLES OF ANIMAL NUTRITION.—The functional activities of the animal body and the end products of their metabolism. Foods are considered first chemically, as affording materials for the construction of the body tissues or of animal products, as meat, milk, wool, etc.; second, dynamically, as supplying the potential energy for the body processes and for external labor; third, as to the fertilizing value of their residues. *I.; first half; daily; 3; (2½). Mr. HALL.*

*Prerequisite:* Chemistry 1, 3b, 4. 13; entrance Physics, or its equivalent, and one year of Botany or Zoölogy.

8. STOCK BREEDING.—(See Thremmatology 1).

9. INVESTIGATION AND THESIS.—Upon lines to be arranged with instructor for one or two semesters, according to nature of the subject. (5-10). Professor MUMFORD, Mr. HALL, Mr. OBRECHT, Mr. DIETRICH, Mr. GOOD, Mr. COFFEY.

10. MEAT.—The structure and composition of meats; quality, cost and food values of the various cuts of beef, mutton, and pork; breeding and feeding of the animal as affecting the value of the carcass and quality of the meat; farm and packing house methods of slaughtering, handling and curing meats, by-products of slaughter and their bearing upon the cost of meat. *I.; second half; daily; 8; (2½). Mr. HALL.*

11. MARKET CLASSES AND GRADES OF BEEF CATTLE.—An outline of the market classes and grades including the various grades of beef cattle, butcher stock, cutters and canners, stockers and feeders, and veal calves. A study of beef type from the standpoint of the butcher, the feeder, and the breeder. The value of each grade according to current market reports. Exhaustive practice in judg-

ing, with lectures and assigned readings. *I.; first half; daily; section A, 1; section B, 2; or I.; second half; daily; section A, 2; section B, 3; (2½).* Mr. HALL, Mr. GOOD.

12. BREEDS OF BEEF CATTLE.—The history, development, and characteristics of the breeds suitable for beef production. Tracing pedigrees and a critical study of the same (This course is intended for students expecting to own or manage pure bred herds). Lectures, assigned readings, and exhaustive practice in judging. *II.; first half; lectures, M., Tu., W., 3a; laboratory or practical exercise in judging, Th., F., 3, and 2 hrs. additional laboratory work per week for which arrange time; (2½).* Professor MUMFORD, Mr. GOOD.

*Prerequisite:* Animal Husbandry 10 and 11.

13. BEEF PRODUCTION.—Methods and practices in breeding and feeding beef cattle for the open market. By-products of the feed lot and their bearing upon the cost of beef. It is recommended that this course should be taken after Animal Husbandry 10. Lectures, assigned readings, and a study of experimental work. *II., first half; daily; 8; (2½).* Mr. HALL.

*Prerequisite:* Animal Husbandry 21 or 7.

14. MANAGEMENT OF PURE-BRED HERDS OF BEEF CATTLE.—Like Animal Husbandry 12, this course is intended for students anticipating the management or ownership of registered herds. The breeding herd, and its housing, feed, and management. The selection and fitting of animals for sale and for the show ring. Disposal of surplus stock. Lectures and assigned readings. *II., second half; daily; 1; Laboratory work four hours per week for which arrange time; (2½).* Professor MUMFORD, Mr. GOOD.

*Prerequisite:* Animal Husbandry 10, 11, 12, and 13.

15. DAIRY CATTLE.—(See Dairy Husbandry 2 and 17.)

16. STABLE MANAGEMENT AND FEEDING OF HORSES.—Feeding and care of work horses and drivers at labor and at rest. Stables, stable floors, fixtures, harness, vehicles, and other equipment, and their care. Lectures and assigned readings. *I.; first half; M., W., F.; 3; (1½).* Mr. OBRECHT.

*Prerequisite:* Animal Husbandry 21.

17. THE EDUCATION AND DRIVING OF THE HORSE.—A critical study of the mental qualities, peculiarities, and limitations of the horse together with the most successful methods of educating and training him for skillful work at labor or on the road. The rules and practices of correct driving, and responsibilities of the driver

and the courtesies of the public highway. Lectures, readings, and practice. *II.; second half; daily; 1, 2; (2).* Mr. OBRECHT.

*Prerequisite:* Animal Husbandry 5 and three semesters' work in the University or its equivalent.

Only a limited number of students admitted to this course.

18. BREEDS OF LIGHT HORSES.—Their history, development, and characteristics. Lectures, assigned readings and practical work in judging. *I.; first half; M., W., F.; 11; (1½).* Mr. OBRECHT.

*Prerequisite:* Animal Husbandry 5 or its equivalent.

19. BREEDS OF DRAFT HORSES.—Their history, development, and characteristics. Lectures, assigned readings, and judging. *I.; first half; Tu., Th.; 11; (1).* Mr. OBRECHT.

*Prerequisite:* Animal Husbandry 4 or its equivalent.

20. BREEDING, REARING AND MANAGEMENT OF HORSES.—Selection of breeding stock, care and management of stallions, mares, and foals; breeding and the production of market horses; buying, selling, and showing. Lectures and assigned readings. *I.; first half; Tu., Th.; 3; (1).* Mr. OBRECHT.

21. ELEMENTARY STOCK FEEDING.—The animal body: its processes and requirements; the digestion and utilization of food, and conditions affecting the same. Feeding stuffs; their composition their comparative values considered chemically, physiologically, and with reference to their fertilizing constituents. Feeding standards and the compounding of rations. Lectures, assigned readings, and recitations. *I.; first half; Tu., Th.; 1; or II.; first half; Tu., Th.; 1; (1).* Mr. HALL.

22. ADVANCED STOCK JUDGING.—A study of animal conformation with reference to market and show yard form, quality, and condition. A course intended to render the student expert in his judgment in the selection of horses, beef cattle, sheep, and swine, for fed lot, market, and exhibition and to qualify him as a competent judge at Live Stock Shows. *II.; daily; 4; (3).* Professor MUMFORD, Messrs. HALL, OBRECHT, DIETRICH, GOOD, COFFEY.

*Prerequisite:* Credits in Animal Husbandry 1, 2, 4, 5, 11, and 10 or 12 and three semesters' work in the University or its equivalent.

### COURSES FOR GRADUATES

101. DEVELOPMENT OF TYPE IN DOMESTIC ANIMALS.—A study of the various factors and conditions involved in the development of type and characteristics in the breeds and strains of cattle, horses,

sheep, and swine, and the bearing of these factors and conditions upon future improvement. Professor MUMFORD.

102. ANIMAL NUTRITION.—Special investigations at the Experiment Station, also special study of records of investigations and feeding experiments of the department with reference to problems of nutrition. Professor MUMFORD.

103. LIVE STOCK EXPERIMENTATION.—Objects, methods, and sources of error in experimental work dealing with the feeding, breeding, and management of farm animals. Detailed study of live stock experiments in progress at this Station, and a survey of past and present work in this line by the various experiment stations of the world. Professor MUMFORD.

## ARCHITECTURE

2. WOOD CONSTRUCTION.—Formulæ and data for computing dimensions and strength of columns, beams, girders, etc., of wood or metal, are given and applied in the solution of examples. Wood and its uses in construction and decoration, seasoning, shrinkage, defects, and modes of protection from decay. Construction and design of wooden floors, walls, ceilings, and roofs, and joinery, doors, windows, bays, inside finish, cornices, wainscoting, stairs, etc. *Kidder's Building Construction and Superintendence; Part II., I.; W., F.; 1, 2, 3; (3)*. Mr. VAWTER.

*Prerequisite:* General Engineering Drawing 1, 2.; Math. 2, 4.

3. MASONRY AND METAL CONSTRUCTION.—Foundations of stone, brick, concrete, and piles; materials employed in stone masonry, their uses, defects, qualities, and modes of preparation. Kinds of masonry and external finish. Tools for stone cutting and their use. Preparation of working drawings, with application to the arch, vault, and dome. Brick masonry, its materials and bonds, manufacture and refining of cast iron, wrought iron, and steel, with processes of pattern-making, molding, casting, refining, rolling, etc., and standard dimensions or sections. Special properties and value of metal in a structure, designing a line of columns in mercantile building, and of beams, girders, and footings, together with the study of joints and connections. *Kidder's Building Construction and Superintendence; Part I. II.; Tu., Th., 6, 7, 8; (3)*. Mr. VAWTER.

*Prerequisite:* General Engineering Drawing 1, 2.; Math. 2, 4.

4. SANITARY CONSTRUCTION.—Recitations and lectures, designs for special problems. Study of plumbing, trap ventilation, removal

of wastes, construction of water closets, drains, and systems of water supply; sewage disposal. Water supply and fixtures in dwellings. *Lectures on sewage Disposal. I.; F.; II; (1).* Mr. VAWTER.

*Prerequisites:* Physics 2a, 2b; Arch. 2, 3.

5. GRAPHIC STATICS AND ROOFS.—Elements of graphic statics and applications in designing trussed roofs. Forces, equilibrium, reactions, moments, bending moments, and shears on beams; center of gravity, moment of inertia and kern of cross sections. Construction of wooden and metallic roofs, mode of computing loads on roof trusses, obtaining end reactions, drawing strain diagrams, and determining sectional dimensions of members, with the designing of joint connections. *Sondericker's Graphic Statics. II.; M., W.; 8, 9; F. 8, 9, 10.* Mr. CLARK.

*Prerequisite:* Math. 2, 4, 6; Theoretical and Applied Mechanics 4, 5, or 6, 7, 8, 9.

6. HISTORY OF ARCHITECTURE.—Continues through the year and is taken with architecture 7 and 11. Commencing with Egyptian and ending with modern styles, a careful study is made of the more important styles, examining historical conditions, local and inherited influences, structural materials and system, special ornaments, purposes and designs of the buildings, with the most important typical examples of each style. Especial attention given to ideas useful or suggestive in American work, and to tracing gradual evolution of architectural forms. One recitation and two illustrated lectures a week. *Fletcher's History of Architecture. 5th Edit. I.; M., Tu., W., Th.; 10; II.; M., Tu., W., Th.; 11 (4).* Professor RICKER.

*Prerequisites:* G. E. D., 1, 2; Arch. 2, 3.

7. HISTORIC ORNAMENT.—A study of the most important details of the Grecian, Roman, Early Christian, Byzantine, Mohammedan, Romanesque, Gothic, and Renaissance styles. Lectures and drawing. *II.; Tu., Th.; 8, 9, 10; (2).* Professor WELLS.

*Prerequisite:* Architecture 2, 3, 8.

8. THE ORDERS OF ARCHITECTURE.—A study of the Five Orders of Architecture, and architectural Shades and Shadows and of the proportions and details of the Orders by means of lectures, recitations, blackboard sketches from memory, and problems requiring the use of Orders. *Ware's American Vignola; Lectures on Shades and Shadows. II.; lecture, Th.; 9; drawing, M., W., F.; 8, 9; (3).* Assistant Professor CASE and Mr. VAWTER.

*Prerequisite:* Gen. Eng'g. Drawing 1; Architecture 20 or 21.

9. MONTHLY PROBLEMS.—An entire day in each month during the second, third, and fourth years is devoted to a problem in design. The program is made known at beginning of the exercise, and sketches must be completed and rendered during the same day. Credit is given for this study only after the completion of each year. *I., II.; first Tu. in each month, all day; ( $\frac{1}{2}$  for each semester).* Assistant Professor CASE and Professor WELLS.

*Prerequisite:* General Engineering Drawing 1, 2.

10. WORKING DRAWINGS.—Conventional methods for representing the different parts of buildings in general and in detail, conventional colors and sectioning; systems of lettering and figuring drawings; working drawings; tracing; drawings for reproduction. *II.; M; 1, 2, 3; (1).* Mr. CLARK.

*Prerequisite:* Architecture 2, 3, except for students in ceramics.

11. ARCHITECTURAL SEMINARY.—Original investigations of assigned topics in History of Architecture; reviews of books, abstracts of current technical journals, and other publications. Taken with Arch. 6. *I.; F.; 10; II.; F.; 11; (1).* Professor RICKER.

12. SUPERINTENDENCE, ESTIMATES, AND SPECIFICATIONS. — This study comprises several specialties not otherwise provided for, so far as they can be taught in a professional school. The subjects treated include the duties of a superintendent, his relations to architect, owner, and contractor, the method of supervising work, systems of keeping building accounts, the usual methods of measurement of materials and work, arrangement of computations in proper and convenient order, and approximate prices of material and labor, which vary in different localities. The methods of estimating by squaring, cubing, units, and quantities are each employed and illustrated by problems. A study is made of the general and special clauses of specifications and of their arrangement, as well as of methods of classifying material to facilitate writing specifications. Practice is obtained by writing several sets. *Clark's Superintendence; Bower's Specifications, I.; M., W., F.; 11; (3).* Mr. CLARK.

*Prerequisite:* Architecture 2, 3, 4.

13. HEATING AND VENTILATION.—Scientific theory and practice of warming and ventilating buildings is the object of this study. Commencing with fuels and production of heat, then passing to flow of gases through ajutages and pipes, applying these data to calculations of dimensions of air ducts and chimneys. Different systems of heating by furnaces, hot water, steam, etc., are next ex-

amined, with details of each. Sources of impurity in the air and requirements of good ventilation are then considered, with the different methods of ventilation by aspiration, by fans, etc., ending with the study of fans of different types. Numerous problems are given, and heating plants designed. *Carpenter's Heating and Ventilating Buildings; Ricker's Notes on Heating and Ventilation. I.; M., W., Th., F.; 10; (4).* Professor WHITE.

*Prerequisite:* Architecture 2, 3, 4, 15; Physics 2a, 2b.

14. ARCHITECTURAL PERSPECTIVE.—Theory of perspective is taught with labor-saving methods of abbreviating work, and designing in perspective is made a special aim. Problems in angular, parallel, vertical, and curvilinear perspective, as well as in perspective shades and shadows, are solved. *Ware's Modern Perspective. I.; drawing, Th.; 1, 2, 3; lecture, Th.; 9; (2).* Mr. CLARK and Mr. VAWTER.

*Prerequisite:* General Engineering Drawing 1, 2.

15. REQUIREMENTS AND PLANNING OF BUILDINGS.—A study of the requirements which must be considered to successfully plan schools, churches, libraries, theatres, hospitals, and other usual types of buildings. Numerous problems in planning are given. *II.; lecture, F.; 9; drawing M., W. T.; 8, 9, or 9, 10; (3).* Professor WHITE.

*Prerequisite:* General Engineering Drawing 1, 2; Architecture 2.

16. RESIDENCE DESIGN.—Practice in design and study of the requirements for dwellings. The work is limited to residence, since this class of buildings is likely to afford the graduate his first opportunity for independent original work. Lectures and drawing. *II.; W., 10; drawing, F.; 1, 2, 3; (2).* Assistant Professor CASE.

*Prerequisite:* Architecture 2, 3, 8.

17. ARCHITECTURAL DESIGNING.—Simple problems in design are solved by sketch plans, elevations, and selections, rendered as required. The object is to obtain as much practice in design as possible, and the course serves as an introduction to senior work in design. *II.; Tu., W., Th.; 1, 2, 3; (3).* Assistant Professor CASE.

*Prerequisite:* Architecture 6, 7, 8, 9, 11, 20, or 21.

18. ARCHITECTURAL COMPOSITION.—A careful study is made of the laws of architectural design and of the results of experience. Commences with general principles, passing to an examination of proportions employed in most important styles, arrangement of plan,

external design in general detail, ceilings, and interior arrangement of corridors, stairways, and entrances, of internal courts, and of halls for large assemblages. Frequent problems in design afford practical application of the principles. *I.*; lecture *Tu.*, 8; drawing, *M., W., F.*; 8, 9; (3). Assistant Professor CASE.

*Prerequisite:* Architecture 6, 7, 8, 9, 11, 17, 20 or 21.

19. ARCHITECTURAL ENGINEERING.—This continues the study of graphic statics commenced in "Graphic Statics and Roofs," with application to metallic roofs of wide span, roof trusses of curved or unusual form, and those supported by abutments and jointed. Spherical and conical trussed domes. Effect of moving loads on girders, the graphical analysis of the arch, vault, and dome, and of the Gothic system of vault and buttress. Construction and details of steel skeleton buildings. Practical applications are made to a series of problems in design for specified cases. *Freitag's Architectural Engineering; Ricker's Notes on Architectural Engineering; Scott's Structural Designer's Handbook.* *I., II.*; *M., Th.*; 8; *Tu., F.*; 8, 9; (3). Professor RICKER.

*Prerequisite:* Math. 2, 4, 6, 7, 9; Theoretical and Applied Mechanics 6, 7, 8, 9; Architecture 2, 3, 5.

20. FREE HAND DRAWING.—Any courses offered in Art and Design amounting to three semester hours. Arrange hours. *I., II.*; *Daily*; (3). Mr. LAKE.

22. RENAISSANCE DESIGN.—A study of Architectural Design applied to large problems. *I.*; *M., W., F.*; 1, 2, 3; (3). Assistant Professor CASE.

*Prerequisite:* Architecture 8, 6, 11, 17, 18.

23. MEDIAEVAL DESIGN.—A prescribed series of tracings of important details of Romanesque and Gothic architecture is made, and problems in construction and design are worked out as fully as time permits. *Ricker's Translation of "Redtenbacher's Leitfaden."* *I.*; lecture, *Th.*; 10; drawing, *Tu., Th.*; 1, 2, 3; (3). Assistant Professor CASE.

*Prerequisite:* Architecture 6, 7, 11, 17, 18, 20.

25. DESIGN OF ORNAMENT.—The study of the design of architectural ornament to decorate the structural forms usually found in practice. These designs will be in charcoal or crayon at as large a scale as possible. *Lectures, Meyer's Hand-Book of Ornament.* *II.*; *Tu., W., Th.*; 1, 2, 3; (3). Professor WELLS.

*Prerequisite:* Architecture 6, 7, 8, 11, 17, 18, 20.

27. DOMESTIC ARCHITECTURE.—Instruction in this subject will be given only in connection with courses in Household Science 2 and 3. Professors RICKER and CASE.

28. MURAL DECORATION.—Includes the study and analysis of some of the best examples of modern decorated interiors; the appropriate use of various materials; the rendering of scale drawings in color with especial reference to the esthetic effect produced by various harmonies of color. *I.*; *M.*, *W.*, *F.*; 8, 9; *II.*; *M.*, *W.*, *F.*, 8, 9; (2). Professor WELLS.

*Prerequisite:* Arch. 20, 7, 8, 9 (1 year), G. E. D. 1.

29. SHORT HISTORY OF ARCHITECTURE.—(Elective for students in the College of Science or of Literature and Arts). A careful study of the important historical styles of architecture, their origin, systems of construction, elementary forms, decoration by sculpture and painting, chief kinds of buildings, and a series of selected examples, illustrated by lantern slides. Offered to not less than four students. *Two weekly lectures with reading of Hamlin's History of Architecture.* *I.*; *W.*, *F.*; 1; (2). Professor RICKER.

30. THESIS.—The preliminary work on the thesis is begun during the first semester, but no special time is set apart on the program nor any credit granted for it during this semester.

In the second semester credit may be given to the amount of six hours in architecture and four hours in architectural engineering, and a regular time shall be assigned on the program for this part of the work, but the amount of time so prescribed shall in no case be considered to be the total thesis requirement. *II.* *Arch.*; *M.*; *F.*; 10, 11; 1, 2, 3; *Th.* 10, 11; *Arch. Eng.*; *M.*, *T.*, *W.*; *Th.*, *F.*, 3; *W.*, 8, 9, 10. Professors RICKER, WHITE, and WELLS, and Assistant Professor CASE.

31. ARCHITECTURAL READINGS.—Students being allowed a choice of French, German or English for the required year of Freshman language, a similar choice is necessary in this study. The object of the course is to obtain a knowledge of architectural terms in French or German, or of the allied arts of painting and sculpture by students who select English. *I.*, *II.*; 31 *E.*, *M.*, 4; 31 *F.*, *Tu.*, 4; 31 *G.*, *Th.*, 4.

*French:* Reading of Palustre's *Architectur Renaissance*. *German:* Reading of Notel's *Tagebuch einer Halienischen Reise*. *English:* Van Dyke's *History of Painting*, and Marquand's *History of Sculpture*.

Weekly readings or recitations. Professor RICKER.

*Prerequisite:* Arch. 6; French, German, or English for at least one year.

32. WATER COLOR RENDERING.—Exercises in the practice of the different technical methods of rendering architectural drawings and designs. *I.; M.; 1, 2, 3; (1).* Professor WELLS.

*Prerequisite:* G. E. D. 1, Arch. 29, 8, 35, 9 (1 year).

33. RENDERING OF ORNAMENT.—Exercises in rendering full sized details of relief ornament and of sculpture for architectural decoration. *I.; W., F.; 1, 2, 3; (2).* Professor WELLS.

*Prerequisite:* G. E. D. 1, Arch. 6, 20, 35, 9 (1 year).

34. ARCHITECTURAL ENGINEERING SEMINARY.—Reports on and discussions of current literature germane to architectural construction. Taken with Arch. 19. *II.; F.; 10; (2).* Professor RICKER.

*Prerequisite:* Arch. 2, 3, 4, 19 (1 semester), T. & A. M. 6, 7, 8, 9, 10.

35. PERSPECTIVE SKETCHES.—Rendering of scenic effects and views in water colors, comprising skies, distance, trees, foliage, shrubbery, and foreground details. The class will practice out-door sketching when the weather permits. *I.; Tu.; 1, 2, 3; (1).* Professor WELLS.

*Prerequisite:* G. E. D. 1, 2; to be taken with Arch. 14.

#### COURSES FOR GRADUATES

##### Primary

101. Construction of Extensive Wooden Buildings.
102. Recent Uses of Stone, Brick, and Terra Cotta in Architecture.
103. Metallic Skeleton Buildings.
104. Fire-resisting and Fire-proof Buildings.
105. Sanitation of Public Buildings.
106. Evolution of Architectural Styles.
107. Higher Applications of Graphic Statics.
108. Heating and Ventilation of Large Buildings.
109. Advanced Architectural Design.
110. Applied Esthetics.
111. Translation of an approved Technical Architectural Work from the French or German.
112. Indexing and Classification of Periodicals, Books, Data, and Technical Information for Architects and Engineers.

## Secondary

- 113. Stereotomy of American Problems.
- 114. Examinations of Heating and Ventilation of Buildings.
- 115. Photography for Architects.
- 116. Reproducing Drawings, Specifications, etc., for Architects.
- 117. Advanced Perspective.
- 118. Practice in Estimates, Specifications, etc., for Large Buildings.
- 119. Higher Industrial Design.
- 120. Advanced Water-color Painting.
- 121. Study of Office Methods and Arrangements.
- 122. Any *primary* offered in the College of Engineering.
- 123. Electric Lighting and Wiring of Buildings.

## ART AND DESIGN

On account of the close connection of the department of art and design with the other departments of the University, students may specialize in the artistic sides of their chosen courses of study, and students who wish to become teacher of drawing or of manual training in the public schools may arrange courses to suit their individual needs.

1. FREE-HAND DRAWING.—An elementary course offering, first, lectures on the principles of perspective followed by drawing practice, and, second, work arranged to be of direct assistance to the students in their several courses in the University. All students entering the department are required to enter this class or pass an examination in the subject. *I.*; *section A*, daily; 8, 9; (3); *section B*, M., W., F.; 10, 11; *section C*, M., W., F.; 1, 2; (2). *II.*; daily; 8, 9; (3). Assistant Professor LAKE and Miss JONES.

2. LIGHT AND SHADE.—Study of values in charcoal, pencil, or monochrome wash as a preparation for advanced work, especially courses 4 and 5. *II.*; *section A*, M., W., F.; 10, 11; *section B*, Tu., Th., Sat.; 10, 11; *section C*, M., W., F.; 1, 2; (2). Assistant Professor LAKE.

*Prerequisite:* Art and Design 1.

3. ANTIQUE CLASS.—Study of casts from the antique, including details of the face, masks, busts, and the figure. This course aims to give students a sound knowledge of the principles of the

construction of the figure and prepare them for intelligent work from life. *I., II.; daily; 10, 11; (3).* Professor FREDERICK.

*Prerequisite:* Art and Design 1.

4. PAINTING.—Still-life and flowers in oil and water-color; *I.; M., W., F.; 1, 2; (2).* *II.; section A, M., W., F.; 10, 11; section B, M., W., F.; 1, 2; (2).* Miss JONES.

*Prerequisite:* Art and Design 1, 2.

8. MODELING.—A course in clay modeling comprising work from the antique and from life in relief and the round. Instruction is given in casting. *Frederick's Plaster Casts and How They Are Made. I., II.; Tu., Th.; 1, 2, 3; (2).* Professor FREDERICK.

*Prerequisite:* Art and Design 1 or 3.

8a. Special section of course 8 for the study of ornament for architectural students. *I., Tu. or Th.; 1, 2, 3; (1).* Professor FREDERICK.

*Prerequisite:* Art and Design 1 or 3.

10. PEN RENDERING.—In this course drawings are made with special reference to the requirements of the reproductive processes. Lectures on the graphic arts and process engraving. *I.; S.; 9, 10, 11; (1).* Assistant Professor LAKE.

*Prerequisite:* Art and Design 1.

12. APPLIED DESIGN.—This course offers a review of the principles of design, followed by practical problems worked out in pyrography, mosaic, embroidery, etc. *II.; daily, 8, 9; (3).* Miss JONES.

*Prerequisite:* Art and Design 1.

14. PERSPECTIVE.—Lectures upon the principles of mechanical perspective. The problems given are arranged to have a direct bearing upon the work of other courses in the department. *I., II.; arrange time; (1).* Professor FREDERICK.

16. COLOR.—The use of color in design and in interior decoration. The aim of this course is to develop color appreciation. *I., II.; Tu.; 11; (1).* Professor FREDERICK.

19. HISTORY OF ART.—The history of architecture and sculpture is studied the first semester, and the history of painting the second. *I., II.; M.; 3; (1).* Professor FREDERICK.

*Prerequisite:* One year of University work.

20. TEACHERS' CLASS.—In this class an application of the work offered by the department is made to the public school problems. Published courses of art study for the public schools are compared,

and the class plans and arranges a course of art study for the eight grades of the public schools. *I., II.; S.; 8; (1)*. Professor FREDERICK.

*Prerequisite:* Art and Design 1, 2, 4.

## ASTRONOMY

1. ELEMENTARY ASTRONOMY.—This is a course for beginners and does not require mathematics. From lectures and the text, the student will be given a general view of the subject, and this class room work will be supplemented by direct observation of the sky. Besides identifying the principal constellations, each student will follow such changes as the motions of the moon and planets, and the fluctuations of variable stars. Some simple work will be done with the instruments of the observatory, but emphasis will be laid on those observations which can be made without apparatus, and which the student can do in after life. *I.; M., W., F.; 11; (3)*. Assistant Professor STEBBINS and Mr. FATH.

3. GENERAL ASTRONOMY FOR ENGINEERS.—This course is intended to be taken with course 6 by engineers. In the class room is given a general view of the subject, which will be supplemented by the observational work of the practical course. *II.; M., W., F.; 10, 11; (3)*. Assistant Professor STEBBINS and Mr. FATH.

*Prerequisite:* Mathematics 4, 6, 7 or 8a.

4. GENERAL ASTRONOMY.—This is a beginners' course similar to astronomy 1, but more extended in its scope. *II.; daily; 9; (5)*. Assistant Professor STEBBINS and Mr. FATH.

6. PRACTICAL ASTRONOMY.—This course is offered especially for engineers. Rough and accurate determination of latitude, azimuth, and time, are the essential parts of the course; and emphasis is laid on the methods which the engineer will be able to use with the ordinary surveyor's transit. The necessary amount of spherical trigonometry is given at the beginning of the work. This course is also designed to train the student in the art of computing. *Comstock's Field Astronomy for Engineers. II.; Tu., Th.; 10, 11; (2)*. Assistant Professor STEBBINS and Mr. FATH.

*Prerequisite:* Mathematics 4, 6, 7 or 8a.

7. THEORETICAL ASTRONOMY.—This course begins with the elementary theory of the motions of the heavenly bodies, and is intended to lead the student up to the actual computation of a cometary orbit. *I., II.; arrange time; (3)*. Assistant Professor STEBBINS.

*Prerequisite:* Mathematics, 1, 3, 8a, 8b or 7, 9.

9. CELESTIAL MECHANICS.—A continuation of course 7. Introduction to the theory of disturbed planetary motion. *I., II.; arrange time.* Assistant Professor STEBBINS.

*Prerequisite:* Mathematics 16; Astronomy 7.

10. SEMINARY AND THESIS.—*I., II.; arrange time; (3).* Assistant Professor STEBBINS.

14. OBSERVATIONAL ASTRONOMY.—This course is intended for those who wish to become familiar with the working methods of an astronomical observatory. The problems set for solution are largely individual. *II.; arrange time; (3).* Assistant Professor STEBBINS.

*Prerequisite:* Astronomy 3, 6, 15.

15. GEODETIC ASTRONOMY.—A course in continuation of astronomy 3, 6, for those who wish to go into geodetic work. Advanced work with the sextant, transit, and zenith telescope. The methods taught are similar to those of the United States Coast Survey. *I.; arrange time; (3).* Assistant Professor STEBBINS.

*Prerequisite:* Astronomy 3, 6.

## BOTANY

1. HISTOLOGY AND PHYSIOLOGY.—General vegetable histology and vegetable physiology, or study of the cells and tissues of plants and their courses of development in structures and organs; and studies in the general activities of plants correlated with external conditions. *II.; I, 2; (5).* Assistant Professor HOTTES, Mr. BALLARD and Mr. BARTO.

*Prerequisite:* Entrance credit in Botany, or Botany 11; Chemistry 1, or Physics 2a; Art and Design 1.

2. MORPHOLOGY.—The general morphology and taxonomy of plants, including a study of selected types. Occasional field excursions. *I.; I, 2; (5).* Professor BURRILL and Mr. BRISCOE.

*Prerequisite:* Entrance credit in Botany, or Botany 11; Art and Design 1.

In courses 1 and 2 taken together, either in the order of the numbers or the reverse, there is offered a comprehensive treatment of the subject, to serve the double purpose of an introduction to the science for those who desire to continue the study, and as a complete course for general students. Each semester's work is, however, independent, and may be separately credited.

3. CYTOLOGY AND PHYSIOLOGY.—Lectures, laboratory work and assigned reading. The course extends through the year, but the

work of each semester is credited separately under the designations of 3a and 3b. The first semester is devoted mainly to cytology and histology, with special attention to technique; during the second semester experimental physiology receives chief attention. *I., II.; 10, 11; (5).* Assistant Professor HOTTES. (See Course 14.)

*Prerequisite:* Botany 1.

4. TAXONOMY OF SPECIAL GROUPS.—Mostly laboratory and herbarium work, and assigned reading. Field excursions are required. The course extends through the year, but the work of each semester is credited separately under the designations of 4a and 4b. The first semester is devoted mainly to spermatophytes, the second to sporophytes. *I., II.; 8, 9; (5).* Professor BURRILL.

*Prerequisite:* Botany 2.

5. BACTERIOLOGY.—An introduction to the knowledge of the subject and instruction in methods. *II.; 1, 2; (5).* Professor BURRILL, and Mr. BRISCOE.

*Prerequisite:* Chemistry 1, and at least one semester's work in botany or zoölogy, in the University.

6. BACTERIOLOGY FOR SANITARY ENGINEERS. — Bacteriological methods and their application in water analysis and sewerage. *I. (last seven weeks); daily; 9, 10; (2).* Professor BURRILL and Mr. BRISCOE.

7. PLANT PATHOLOGY.—Diseases and injuries of plants. Mostly laboratory, herbarium, and field work, and assigned reading. *I.; M., W., F.; 8, 9; (3).* Professor BURRILL.

*Prerequisite:* Botany 1, 2.

8. ECONOMIC BOTANY.—Useful plants and plant products. Lectures and assigned reading. *I.; Tu., Th.; 8, 9; (2).* Professor BURRILL.

9. INVESTIGATIONS AND THESIS—Research work upon selected subjects. Special arrangements for this work should be made during the preceding year. *I., II.; arrange time; (5).* Professor BURRILL and Assistant Professor HOTTES.

*Prerequisite:* Botany 1, 2 and at least one year from 3, 4, 5, 7.

10. SEMINARY.—Reports and discussions upon assigned topics and results of research work. For advanced and graduate students. *I., II.; F.; arrange time; (1).* Professor BURRILL.

11. INTRODUCTORY COURSE.—Elementary work chiefly upon flowering plants, including their general structure, activities, life-relations, and classification. The laboratory work is supplemented by

field observations and by the study of text. The course is planned to offer general students an opportunity of gaining elementary knowledge of the vegetable kingdom. *I.*; *1, 2; (2½, or 5).* Assistant Professor HOTTES, Mr. BALLARD and Mr. BARTO.

12. LECTURES AND DEMONSTRATIONS UPON BACTERIA.—An elementary course in which is presented the facts concerning the existence, size, form, life processes, and effects of bacteria and allied organisms, with special attention to those of economic importance, or of most common utility or detriment to man. *I., second half; Tu., Th.; 3; (1).* Professor BURRILL.

13. GERMAN READINGS.—A study of botanical literature in German, intended to give technical information and practice of accurate and rapid reading. This course, together with zoölogy 14, will be accepted instead of German 6 of the prescribed list of all except students in chemistry and chemical engineering. *II.; arrange time; (4).* Assistant Professor HOTTES.

*Prerequisite:* German 4.

14. LECTURES OF COURSE 3.—First semester on the plant cell: the physiology of its different constituents and the parts these play in the process of fertilization; various theories of heredity and species formation. Credited as 14a. Second semester on growth and respiration: the phenomena of growth and respiration discussed with reference to the influence external agents exert upon them through irritability. Credited as 14b. *I.; II.; Tu., Th.; 10; (2).* Assistant Professor HOTTES.

BOTANY 15. TEACHERS' SEMINARY.—A study of the teaching of botany in secondary schools; methods of instruction; laboratory equipment and material helps, pertinent literature; the teacher's preparation and duties. *II.; arrange time. (1).* Professor BURRILL and Assistant Professor HOTTES.

#### COURSES FOR GRADUATES

After at least one year of biological work graduates may elect any of the courses 1 to 10 inclusive for minor credit, and of courses 3 to 10 with assigned additions for major credit towards an advanced degree. The following are open only to graduates of liberal botanical training.

101. BIOLOGICAL BOTANY.—The preparation and study of material by histological and embryological methods, and experiment work with living vegetation in the laboratory and field in working

out special problems in the development, physiology, and pathology of plants.

102. **SYSTEMATIC BOTANY.**—Critical and comparative studies of species included in chosen groups of spermaphytes or sporophytes, or from selected geographic areas, in connection with considerations of genealogic development, geographic distribution, and interrelated association.

103. **BACTERIOLOGY.**—Investigations upon morphologic and physiologic variation due to treatment; systematic studies upon the number, validity, and relationship of species, researches upon special saprophytic or parasitic kinds of bacteria and upon methods of favoring or combating their activities.

104. **EVOLUTION OF PLANTS.**—Observations and experiments upon plants and studies in related literature, in gaining information upon such topics as the following: The influence of environment effects of self and cross fertilization, tendencies of variation, philosophy of selection, nature and laws of heredity.

## CERAMICS

1. **CLASSIFICATION AND PHYSICAL TESTING OF CLAYS.**—An elementary course designed to acquaint the student early with the varieties of clays and the properties which adapt each to its special use in ceramic industry. *I.; M., W., F.; 10, 11; (3).*

2. **WINNING AND PREPARATION OF CLAYS.**—A study of the commercial methods of winning and preparing ceramic materials for the market and factory. *II.; M., W., F.; 10; (3).*

3. **PHYSICAL CALCULATIONS.**—Problems and calculations relating to problems in hygrometry and heat incident to the processes of drying and burning. *II.; Tu., Th.; 11; (2).*

4. **DRYING AND BURNING.**—A detailed consideration of the methods of drying and burning clay wares, and the physical laws underlying these operations. *I.; M., W., Th., S.; 8; (4).*

5. **BODY MAKING.**—Lectures on the manufacture and body composition of various ceramic wares. Laboratory exercises are given to demonstrate the physical and pyro-chemical effect of variations in processes of manufacture and in composition; also to illustrate the peculiar properties and composition of the various types of bodies. *II.; Lec. Tu., W., Th., F.; 8; Lab.; W. F.; 1, 2, 3; (6).*

6. **GLAZES.**—Lectures on the production of glazes and enamels, their classification and the properties and defects common to each

class, with laboratory exercises to demonstrate the fundamental characteristics of each class of glaze; the effect of variation in composition on its physical properties; and the mode of application. *Lecture M., Tu., W., Th.; 1; Laboratory Tu., W.; 2, 3, 4; (6).*

7. CERAMIC STOICHIOMETRY.—Calculations involved in the manufacture of bodies and glazes, using "Jackson's Ceramic Calculations" and the "American Ceramic Society Manual" as a basis. *I.; M., W.; 9; (2).*

8. COLORS OF BODIES AND GLAZES.—Methods of opacifying and coloring bodies and glazes, with detailed consideration of the methods of decorating clay wares. *II.; M., Tu., Th.; 1; (3).*

9. CERAMIC CONSTRUCTION.—Original plans, specifications and estimates of some ceramic construction will be required. *II.; arrange time; (3).*

10. CEMENT.—A course of lectures on hydraulic mortars of all descriptions, giving special consideration to composition, reactions, and methods of manufacture, mining of raw material, and testing of the finished product. *I.; Lec. M., Tu., W., Th.; 9; (4).*

11. THESIS.—*I., II.; arrange time; (8 to 10).*

## CHEMISTRY

1. ELEMENTARY INORGANIC CHEMISTRY. — This course deals with the general principles of the science. Remsen's College Chemistry. *I.; Lecture Tu., Th.; II. Section A (Science and Agriculture); Lab., Tu., Th., Sat., 8, 9; Quiz, W., F., 8. Section B (Agriculture and Science). Lab., M., W., F., 10, 11; Quiz, Tu., Th., 10. Section C (Agriculture, Science, and Literature and Arts), Lab., M., W., F., 1, 2; Quiz, Tu., Th., 1. Section D (Agriculture, Science, and Literature and Arts), Lab., M., W., F., 8, 9; Quiz, Tu., Th., 8. Section E (Engineers), Lab., Tu., 1, 2, 3; Quiz, Tu., Th., 9. Section F (Engineers), Lab., Th., 1, 2, 3; Quiz, W., F., 8. Section G (Engineers), Lab., Th., 8, 9, 10; Quiz, W., F., 2. Section H (Engineers), Lab., Tu., 1, 2, 3; Quiz, M., W., 9. Section I (Engineers), Lab., Th., 1, 2, 3; Quiz, Tu., Th., 8. Section J (Engineers), Lab., Th., 1, 2, 3, or Sat., 8, 9, 10; Quiz, W., 1; F., 9. II.; Lecture and Quiz, M., W., F., 9; Laboratory Tu., Th., Sat.; 8, 9. For engineers (4); for all others (5). Professor GRINDLEY, Dr. DEHN, Dr. BRYAN, Mr. WILLIAMS, Mr. CLARK, Dr. SMITH, Mr. HEUSE, Miss FLATHER, Mr. WOODS, Dr. WITHROW, Mr. McNALLY.*

2. DESCRIPTIVE INORGANIC CHEMISTRY.—This course is required of all chemical students. It is mainly devoted to a study of the metallic elements, their classification, compounds, and chemical properties. The work is from lectures and assigned text, without laboratory work. Newth's Inorganic Chemistry. *II.*; *Section A.*, *M.*, *W.*, *F.*, 9; *Section B.*, *M.*, *W.*, *F.*, 10; (3). Dr. BRYAN.

*Prerequisite:* Chemistry I.

3a. QUALITATIVE ANALYSIS.—This course consists of recitations and laboratory practice in the ordinary processes of qualitative analysis. *I.*; *daily including Sat.*, 8, 9; *II.*; *Lecture-Quiz*; *Section A.*, *Tu.*, *Th.*, 9; *Section B.*, *Tu.*, *Th.*, 10; *Laboratory, Section A.*, *daily*, 10, 11; *Section B.*, *daily* 1, 2; (5). Professor GRINDLEY, Dr. BRYAN, Mr. WILLIAMS, Mr. CLARK, Dr. SMITH.

*Prerequisite:* Chemistry I.

3b. QUALITATIVE ANALYSIS, Minor.—This course is arranged to meet the wants of Agricultural and Science students. *II.*, (*first half*); *Section A.*, *daily, including Sat.*, 8, 9; *Section B.*, *daily, including Sat.*, 10, 11; *Section C.*, *daily*, 1, 2, and *Sat.*, 10, 11; ( $2\frac{1}{2}$ ). Professor GRINDLEY, Dr. DEHN, Dr. BRYAN, Mr. WILLIAMS, Mr. CLARK, Dr. SMITH, Mr. HEUSE, Miss FLATHER, Mr. WOODS, Dr. WITHROW, Mr. McNALLY.

*Prerequisite:* Chemistry I.

4. ELEMENTS OF ORGANIC CHEMISTRY.—(Minor). A brief course in organic chemistry provided especially for students of agriculture and general science. *II.* (*last half*); *Section A.*, *daily, including Sat.*, 8, 9; *Section B.*, *daily*, 10, 11, and *Sat.*, 10, 11; *Section C.*, *daily*, 1, 2, and *Sat.*, 10, 11; ( $2\frac{1}{2}$ ). Professor GRINDLEY, Dr. DEHN, Dr. BRYAN, Mr. WILLIAMS, Mr. CLARK, Dr. SMITH, Mr. HEUSE, Miss FLATHER, Mr. WOODS, Dr. WITHROW, Mr. McNALLY.

*Prerequisite:* Chemistry I, 3b.

5a. ELEMENTARY QUANTITATIVE ANALYSIS. — The laboratory work comprises a series of experiments which illustrate the fundamental principles of gravimetric and volumetric methods. The lectures and recitations consist of a consideration of stoichiometrical relations, the fundamental laws of chemistry and their application to the study of solutions. Medical preparatory students are given special problems in the latter part of the course. *I.*, *II.*, *Lectures Tu.*, *Th.*; 10; *Laboratory first semester 10 periods per week in two sections.* *Section A (medical)*, *M.*, *W.*; 1, 2, 3; *F.*; 12, 1, 2, 3; *Section B (chemical)*, *Tu.*, *Th.*; 1, 2, 3; *Sat.*, 8, 9, 10, 11; (5). *Lab-*

oratory, second semester 10 periods per week in one section, Tu., Th.; 1, 2, 3; Sat., 8, 9, 10, 11; (5). Assistant Professor LINCOLN, Dr. WALTON, Mr. NEILS, and Mr. OVITZ.

5b. QUANTITATIVE ANALYSIS.—Continuation of 5a. A comparative study of methods with practice in the analysis of silicates, metallic compounds and alloys. I., II.; Lectures, Tu., Th., 10; Laboratory, Tu., Th., 1, 2, 3, and Sat., 8, 9, 10, 11; (5). Professor PARR and Dr. WALTON.

*Prerequisite:* Chemistry 5a.

5c. FOOD ANALYSIS.—This course includes the analysis of food stuffs, grains, milled products, alcoholic beverages, baking powders, vinegars, syrups, sugars, etc. Students who have taken work amounting to five hours' credit in this course may arrange to do more advanced work along the following lines: (a) the study of methods for detecting food adulterations; (b) the separation and determination of the nitrogenous constituents of animal and vegetable foods; (c) the identification and estimation of the carbohydrate constituents of food products. II.; Lecture, Tu.; 1; Laboratory, daily, 10, 11; (3-5). Dr. WALTON.

*Prerequisite:* Chemistry 5a or 13a, and 4 or 9.

6a. METALLURGY.—A general course in metallurgical processes. Lectures and assigned reading. I.; Tu., Th., 11; (2). Professor PARR.

*Prerequisite:* Chemistry 5a.

6b. CHEMICAL TECHNOLOGY.—This is a course of lectures comprising a study of technological chemistry as illustrated in those industries having a chemical basis for their principal operations and processes. Much use is made of the journals. *Thorp's Industrial Chemistry* is used as a guide. No laboratory work. II.; Tu., Th.; 11; (2). Professor PARR.

*Prerequisite:* Chemistry 5a.

8. IRON AND STEEL ANALYSIS.—Analyses are made of all the constituents by both rapid, or technical, and standard methods. The course also includes the analysis of furnace slags and a study of the methods for decomposing ores and refractory products. II.; Lecture, Th., 1; Laboratory, Tu., Th., 9, 10, 11; (2). Dr. WALTON.

*Prerequisite:* Chemistry 5b.

9. ORGANIC CHEMISTRY.—The work of this course consists in the discussion of the characteristics of the more typical and simple organic compounds, followed by a brief consideration of most of the

important classes of derivatives of carbon. *Remsen's Organic Chemistry*. Must be accompanied by either 9a or 9c. *II.*; *M., W., F.*; 9; (3). Assistant Professor CURTISS.

*Prerequisite:* Chemistry 2, 5a.

9a. ORGANIC SYNTHESIS AND ANALYSIS.—Laboratory work for students of the chemical course, consisting of the preparation and study of typical organic compounds, and ultimate organic analysis. *II.*; *Laboratory, W., F.*; 1, 2, 3; (2). Assistant Professor CURTISS and Mr. McNALLY.

*Prerequisite:* Chemistry 2, 5a.

9b. ORGANIC SYNTHESIS AND ANALYSIS.—Continuation of 9a, to accompany Chemistry 14. *I.*; *Laboratory, M., W.*; 1, 2, 3. Assistant Professor CURTISS.

*Prerequisite:* Chemistry 2, 5a.

9c. ORGANIC SYNTHESIS AND ANALYSIS.—Laboratory work in organic chemistry for students of the medical preparatory course. Typical organic compounds are prepared and studied. Especial attention is directed to the organic substances of medicinal value and those of physiological importance. *II.*; *Laboratory, W., F.*; 1, 2, 3; (2). Assistant Professor CURTISS and Mr. McNALLY.

*Prerequisite:* Chemistry 2, 5a.

10a. SANITARY ANALYSIS.—Lectures on history, sources, contamination and standards of purity of potable waters and waters for industrial purposes, together with practice in analytical methods. *II.*; *Lect., M., 1, M., 2, 3, 4 or Sat. 9, 10, 11*; (1) Associate Professor BARTOW.

10b. A modification of 10a to meet the requirements of students in sanitary engineering, registered in connection with Chem. 3b.

11. RESEARCH.—In the senior year a special line of work is arranged for each individual, designed particularly to develop self-reliance and initiative in dealing with new problems or topics needing comparative study or review. A thesis must be prepared embodying a thorough review of the literature of the subject, together with the work done in the laboratory. As far as possible the subject must be determined upon and reading begun in the junior year. A seminary is arranged for reports and discussion. A minimum of five semester hours is required. *I., II.*; *arrange time*; (5). Professors PARR and GRINDLEY, Assistant Professors LINCOLN and CURTISS and Dr. DEHN.

13a. AGRICULTURAL ANALYSIS.—This course is arranged to meet the special wants of agricultural students. The work begins with the quantitative determination and separation of the more important constituents of soils, fertilizers, and agricultural products; it includes the chemical analysis of foodstuffs, such as grains, fodders, dairy products and meats. *I.*; *section A, Lecture, M., 10. Laboratory, daily 8, 9. Section B, Lecture, W., 9. Laboratory, daily 10, 11;* (5) Assistant Professor LINCOLN, Dr. WALTON, Mr. NEHLS and Mr. OVITZ.

*Prerequisite:* Chemistry 3a or 3b and 4.

13b. ADVANCED AGRICULTURAL ANALYSIS.—This course is offered to students who wish to specialize in agricultural chemistry or agricultural experimentation. The work includes the analysis of butter and cheese, the complete analysis of foods, soils, plants, plant ash, rain and drain waters, and the determination of the fuel value of foods. If desirable, the work may be varied to meet the special needs of the individual student. *II.*; *daily; 8, 9 or 10, 11; (3, 5).* Assistant Professor LINCOLN and Dr. WALTON.

*Prerequisite:* 5a or 13a.

14. ORGANIC CHEMISTRY.—In this course the Aromatic Series is chiefly discussed by lectures and frequent quizzes. Especial attention is directed to its connection with the fatty series, the important reactions upon which the theory has been developed, and the synthetic and analytic methods used in determining the constitution and structure of all the important bodies of the series. Attention is given as well to the practical applications of the many substances of commercial value in this series. *Richter's Organic Chemistry.* This course must be accompanied by Chemistry 9b. *I.*; *M., W., F., 10; (3).* Assistant Professor CURTISS.

*Prerequisite:* Chemistry 9.

16. CHEMISTRY FOR ENGINEERS.—This course is arranged particularly for mechanical engineers. It involves the proximate analysis of coals, determination of calorific power, technical analysis of furnace gases, examination of boiler waters, lubricating oils, etc. *II.*; *Lecture, Tu., 9. Laboratory, W., F., 1, 2, 3; (3).* Professor PARR, Mr. ZIMMERSCHIED and Mr. INGELS.

*Prerequisite:* Chemistry 1.

18. SPECIAL COURSES.—Special courses as indicated below, consisting mainly of laboratory work, may be arranged for those competent to pursue them. From 1 to 10 hours' credit will be allowed in the undergraduate courses for such work.

(a). Special problems in assaying and ore treatment. Free-milling chlorination and cyanide tests. Professor PARR and Dr. WALTON.

(b). Advanced Metallurgical Chemistry. Professor PARR.

(c). Analysis and Calorimetry of Fuels. Professor PARR.

(d). Paints, oils, etc. Protective coverings for wood and iron. Professor PARR.

(e). Analysis of Commercial Fertilizers. Dr. WALTON.

(f). Methods of exact gas analysis. Assistant Professor LINCOLN.

21. PROXIMATE ORGANIC ANALYSIS.—Analysis and valuation of various commercial organic materials and products: (a) Pharmaceutical assaying, including the valuation of drugs and various pharmaceutical preparations, tinctures, extracts, etc., etc.; (b) analysis of proprietary articles, medicines, pills, ointments, salves, etc.; (c) fats, waxes, oils, perfumes, flavoring extracts; (d) dye stuffs. Analysis, tests and identification of raw materials, coloring matters and dyes upon the fiber; (e) rubber, paper, fibres, inks, glue, etc. *Allen's Commercial Organic Analysis, Sadtler and Trimble's Pharmaceutical Chemistry. I.; arrange time; (5 or 10).* Dr. DEHN.

24. TOXICOLOGY.—Mainly laboratory work upon the detection and estimation of the more common poisons, organic and inorganic, wall papers, etc. *II.; arrange time; (5).* Dr. DEHN.

*Prerequisite:* Chemistry 2, 3b, 5a, and either 4 or 9.

25. URINALYSIS.—Chemical and microscopic examination of urine. *II.; Laboratory, 6 periods; arrange time; (2).* Dr. DEHN.

*Prerequisite:* Chemistry 2, 3b, 5a.

27. QUALITATIVE ANALYSIS OF THE RARE ELEMENTS.—A detailed study of the rare elements and their compounds. The work consists mainly in the identification and separation of the elements and the study of the formation, solubilities and chemical reactions of their salts. Reading is assigned in connection with laboratory work. *II.; daily; 1, 2; (3).* Professor GRINDLEY and Dr. WITHROW.

*Prerequisite:* Two years' work in Chemistry.

28. METHODS OF QUALITATIVE ANALYSIS.—This course consists in the study and investigation of new and special methods of qualitative analysis. *I.; arrange time; (3, 5).* Professor GRINDLEY.

*Prerequisite:* Two years' work in Chemistry.

31. ELEMENTARY PHYSICAL CHEMISTRY.—This course, extending through one semester, is designed to give an elementary knowledge of the paramount facts of physical chemistry, and their relation to common and practical chemical problems. The instruction is by lectures and recitations. *Walker's Introduction to Physical Chemistry*. II.; *Lectures*, M., W., F.; 11; (3). Assistant Professor LINCOLN.

*Prerequisite*: One year's work in chemistry.

32. ADVANCED PHYSICAL CHEMISTRY.—This is a course of lectures and recitations on special topics for those students of chemistry and physics who desire more extended work in addition to course 31a. Knowledge of differential calculus is desirable. It is recommended that this course be supplemented by at least three hours of Laboratory work, I. and II.; *Lectures* Tu., Th.; 8; (2). Assistant Professor LINCOLN.

33a. PHYSICAL CHEMISTRY.—A laboratory course supplementary to course 31. The work consists of a series of experiments, chosen to familiarize the student with the general methods used in technical and theoretical work, the sources of error and the methods of eliminating the same. It comprises a study of the balance, physical properties—density, rotation of the plane of polarized light, refraction, etc.—thermometry, distillation and crystallization, molecular weight determinations, thermo-chemical and electro-chemical measurements, reaction, velocities, etc. II.; *Laboratory*, 1.; W., F., 1, 2, 3; (2). Assistant Professor LINCOLN, and Mr. NEHLS.

*Prerequisite*: Chemistry 5a, 9.

33b. ADVANCED PHYSICAL CHEMISTRY.—A laboratory course supplementary to course 32. I. and II., *Laboratory* 6 to 15 periods; *arrange time*; (2 to 5). Assistant Professor LINCOLN.

*Prerequisite*: Chemistry 33a.

34. ELECTROCHEMISTRY.—Lectures and Recitations. This course, which includes the modern theories of solutions, comprises a detailed study of the practical applications of electricity to chemical industrial processes, the refining of metals and their electrodeposition. Intended for students going into technical work. It is recommended that this course be supplemented with laboratory work (Course 35). *Leblanc's Electrochemistry and Blount's Practical Electrochemistry*. I.; *Lectures*, M., W., F.; 8; (3); II.; *Lectures*, M., W., F.; 11; (3). Assistant Professor LINCOLN.

*Prerequisite*: Chemistry 1, 3a or 3b; Physics 1, 3.

35. ELECTROCHEMISTRY.—Laboratory work to accompany lecture course 34. This course is intended for students going into technical work and for engineers. Special emphasis is placed upon a study of the electrochemical products and the percentage yield as influenced by the current density, the kind of electrodes employed, as well as by changes in the temperature and in the concentration. *I. or II.; arrange time; (2, 5).* Assistant Professor LINCOLN.

*Prerequisite:* Chemistry 5a or 20; Physics 1, 3.

36. SPECTROSCOPIC ANALYSIS.—This course comprises lecture work with laboratory practice. The student will do practical work with the spectroscope in determining qualitatively the constituents of various mixtures, minerals, and solutions by means of the spark, oxyhydrogen flame, and absorption spectra. *I., II.; by appointment; (2, 4).* Assistant Professor LINCOLN.

*Prerequisite:* Chemistry 4 or 9, 5a, 7a; Physics 1, 3.

41. CHEMISTRY OF MEATS.—A course consisting mainly of laboratory work, in which students may specialize upon any of the following subjects: Chemistry of the cooking of meats; losses involved in the cooking of meats; digestibility of meats; comparative study of the methods for determining the nitrogenous constituents of meats; separation, purification and estimation of the nitrogenous constituents of meats. *I. or II.; arrange time; (5, 15).* Professor GRINDLEY.

*Prerequisite:* Two years' work in Chemistry.

61. INDUSTRIAL CHEMISTRY.—A laboratory course in the preparation of chemical products from raw materials. The manufacture and proving of pure chemicals, fractionation, and other processes of the manufacturing chemist. *II.; Tu., Th., 1, 2, 3; (2).* Professor PARR.

*Prerequisite:* Chemistry 5a.

65. TECHNICAL GAS AND FUEL ANALYSIS. — Examination of gases, gas mixtures, flue gases and fuels. Determination of calorific values and calculation of efficiencies. *I.; Last 7 weeks, daily 8, 9; (2).* Professor PARR, Mr. OVITZ and Mr. GARDNER.

68a. ANALYSIS OF GLASSES AND GLAZES.—For students in ceramics. A study of methods and practice on special problems connected with the pottery industry. *I.; Lecture; F.; 9; Laboratory; Th.; 1, 2, 3; S.; 8, 9, 10, 11; (3).*

*Prerequisite:* Chemistry 5b.

68b. CEMENT CHEMISTRY.—For students in ceramic engineering. This course includes the analysis of cements, cement material, pottery bodies, etc. *I.*; *Lectures*; *S*, *I*; *Laboratory*; *Tu.*, *Th.*; *I*, *2*, *3*; (*3*).

*Prerequisite*: Chemistry 5b.

69. ASSAYING.—The fire assay of lead, gold, and silver ores. Fluxes, re-agents, and charges are studied in connection with various typical ores, and practice given in use of the crucible and muffle furnaces and in the manipulations connected with fire assaying. *I.*; *Last 7 weeks, daily*; *8*, *9*; (*2*). Dr. WALTON.

*Prerequisite*: Chemistry 5a.

90. SEMINARY.—For juniors. *I.*, *II.*; *S*, *II*; (*1*). Professor PARR.

91. SEMINARY.—For seniors. *I.*, *II.*; *M.*, *II*; (*1*). Professor PARR.

#### COURSES FOR GRADUATES

Courses 5a to 51, with the exception of 9, 9a, 13a, 16, 20 and 43, may be taken for graduate credit by students not specializing in chemistry. The following courses are for graduates only:

101. ORGANIC CHEMISTRY.—Special investigations in the aliphatic or in the aromatic series.

102. INORGANIC CHEMISTRY.—Research work in general inorganic chemistry, including the critical and constructive study of methods of analysis, both quantitative and qualitative.

103. PHYSICAL CHEMISTRY.—Investigation of special problems, including thermo-chemical research.

104. CHEMISTRY OF FOODS.—Investigations of the composition, fuel value, digestibility, and dietary value of foods, and the chemical changes involved in cooking.

105. AGRICULTURAL CHEMISTRY.—Special investigations in the field of agricultural chemistry, including the chemistry of plants, foods, soils, and rain, drain, and ground waters.

106. RESEARCH IN METALLURGICAL CHEMISTRY.—(a) Action of solvents in extraction of gold and silver from their ores. (b) Methods of analysis of ores and products.

107. INVESTIGATION OF WATER SUPPLIES.—In connection with State Water Survey.

## 108. INVESTIGATION OF FUELS.—

- (a) Heating power, calorimetric methods.
- (b) Adaptation of bituminous coal to gas manufacture, purification of products.
- (c) Coke and by-products.

## 109. SPECIAL PROBLEMS IN INDUSTRIAL CHEMISTRY.—

- (a) Corrosion and scaling of steam boilers.
- (b) Purification of feed water.
- (c) Cement and mortars.
- (d) Paints and pigments.

## CIVIL ENGINEERING

1. ROADS AND PAVEMENTS.—The value and importance of road improvement in country highways and the best means of securing it are considered, together with the principles and details of construction of earth, gravel, and macadam roads. In city streets, the methods of construction, cost, durability, and desirability of the various kinds of pavement, and the question of grades, cross-sections, methods of assessment of cost, and methods of maintenance and cleaning are treated. *Baker's Roads and Pavements. II.; section C, Tu., Th., 9; section D, W., F.; 9; section E, Tu., Th., 8; section F, M., W., 1; (2).* Assistant Professor FRINK.

*Prerequisite:* Mathematics 4; General Engineering Drawing 1, 2; Civil Engineering 21, 22, 23.

4. RAILROAD ENGINEERING.—In the field practice the class makes preliminary and location surveys of a line of railroad of sufficient length to secure familiarity with the methods of actual practice. Each student makes a complete set of notes, maps, profiles, calculations, and estimates. The principles of economic location and the construction of railways are considered. A study is made of railway appliances and of maintenance-of-way practice. *Allen's Railway Curves and Earthwork, Talbot's Transition Spiral, and Tratman's Track. I.; sections C and D, M. 9-4, Tu. 7, W. 9-11; Th. 2; sections E and F, Tu. and Th. 9, W. 1-3; F. 9-4; (5).* Assistant Professor FRINK and Mr. WEBBER.

*Prerequisite:* Civil Engineering 21, 22, 23.

4a. RAILROAD ENGINEERING.—The first eleven weeks of course 4, for students in municipal and sanitary engineering. (3).

5. MASONRY CONSTRUCTION.—In addition to text-book work the students have experiments in the cement laboratory, in testing ce-

ment, mortar, stone, and brick. *Baker's Masonry Construction. I.; section A, Tu., W., Th., F., 8, and S. 10-11; section B, Tu., W., Th., F., 1, and Th. 10, 11; section C, Tu., W., Th., F., 11, and M., 10-11; (5).* Professor BAKER, Assistant Professor DUFOUR, and Mr. WATEREURY.

*Prerequisite:* Theoretical and Applied Mechanics 7, 8, 9, 10.

10. SURVEYING.—For students in the courses of architecture, architectural engineering, electrical engineering, and mechanical engineering. Areas with chain and compass, U. S. public land surveys, and principles of re-establishing corners; use of transit in finding distance, areas, and in laying out buildings; use of the level in finding profiles and contours. *Pence and Ketchum's Surveying Manual, Baker's Engineers' Surveying Instruments. II.; section A, M., Th., 10, 11; section B, Tu., S., 10; section G, Tu., W., 8, 9; section H., Th., S., 8, 9; (2).* Mr. WEBBER and Mr. GARDNER.

*Prerequisite:* Math. 4; General Engineering Drawing 1, 2; Physics 1, 3.

12. BRIDGE ANALYSIS.—Instruction and practice are given in the computation of the stresses in the various forms of bridge trusses, by algebraic and graphical methods, under different conditions of loading. *Johnson's Modern Framed Structures. I.; section A., Tu., Th., 10; section B, Tu., Th.; 8; section C, Tu., Th., 1; (2).* Assistant Professor DUFOUR.

*Prerequisite:* Theoretical and Applied Mechanics 7, 8, 9, 10; for civil engineering students, Civil Eng'g. 19 and 20, and for architectural engineers, Arch. 5.

13. BRIDGE DETAILS.—The student makes a tracing of a shop drawing of a bridge then makes a critical report upon each element of the design, and computes the cost of the bridge. Afterward a comparative study is made of the several forms of details employed by leading designers. *I.; section A, M., W., F., 10, 11; section B, M., W., F., 8, 9; section C, M., W., F., 1, 2; (3).* Assistant Professor DUFOUR and Mr. MALCOLM.

*Prerequisite:* Civil Eng'g. 12 and free hand sketches, with dimensions, showing full details of a bridge measured by the student.

14. BRIDGE DESIGN.—Each student designs a railroad bridge, proportioning the sections and working out the details, and afterward makes a complete set of drawings. *II.; section A, M., Tu., W., Th., F., 10, 11; section B., M., Tu., Th., F., 8, 9; section C, M., Tu.,*

*W., Th., F., 1, 2; (5).* Assistant Professor DUFOUR and Mr. MALCOLM.

*Prerequisite:* Civil Engineering 12, 13.

14a. BRIDGE DESIGN.—Part of course 14 above, for Municipal and Sanitary Engineering students. *II.; section B, M., W., 8, and Tu., Th., F., 8, 9; (3).*

16. ENGINEERING CONTRACTS AND SPECIFICATIONS.—A study is made of the fundamental principles of the law of contract, and of examples of the general and technical clauses of various kinds used in engineering specifications. *Johnson's Engineering Contracts and Specifications. II.; section A, M., F., 8; section B, Tu., Th., 11; section C, Tu., Th., 8; (2).* Professor BAKER and Assistant Professor FRINK.

*Prerequisite:* Civil Engineering 5, 12, 13; Municipal and Sanitary Engineering 2, 3.

18. TUNNELING.—A study is made of the principles of tunneling, and of the methods employed in constructing the more noted tunnels. *Prelini's Tunneling. II.; section A, M., 9; section B, M., 10; section C, M., 11; (1).* Assistant Professor FRINK.

*Prerequisite:* Mechanical Engineering 1, 11; Chemistry 1; Physics 1, 3; Theoretical and Applied Mechanics 7, 8, 9, 10; Civil Eng'g 5, 12, 13, 14.

19. RAILROAD STRUCTURES.—Instruction is given by lectures and references to standard authorities. Current practice is studied by the examination of existing structures and by means of a collection of the standard drawings of leading railroads. *II.; section C, F., 1-3; section D, W., 1-3; section E, Tu., 1-3; section F, Th., 1-3. (1).* Mr. WEBBER.

*Prerequisite:* Civil Eng'g 4; Theoretical and Applied Mechanics 7, 8, 9, 10.

20. GRAPHIC STATICS.—Elements of graphic statics and applications in designing structures. *II.; section C, M., Th., 1; section D, Tu., 1, Th. 2; section E, W., F., 1; section F, Tu., F., 2; (2).* Mr. MALCOLM.

*Prerequisite:* Math. 2, 4, 6; Theoretical and Applied Mechanics 7, 8, 9, 10. General Eng'g Drawing 1, 2.

21. SURVEYING.—Instruction is given by means of recitations, lectures, field and office work in the theory, use and adjustment of the compass, level transit, plane table, and sextant. The field work includes the determination of distances by pacing and with the chain

and tape; the determination of areas with the compass, transit, and plane table; profile leveling. A careful study is made of the U. S. land survey methods, and court decisions relating to the re-establishment of corners, boundaries, etc. Problems are assigned in the relocation of boundaries, partition of land, interpretation of deeds and in city and farm surveying. *Baker's Engineers' Surveying Instruments, and Pence and Ketchum's Surveying Manual. I.; daily; sections G, H, and GH, 8, 9; sections I, J, and II, 1, 2; (5).* Mr. PARKER, *G and I*; Mr. WATERBURY, *H and J*; Mr. GARDNER, *GH and II*.

*Prerequisite:* General Eng'g Drawing 1, 2; Math. 4.

22. TOPOGRAPHIC SURVEYING.—The theory and use of the stadia and other instruments used in making a topographic survey are considered, as are also the methods of topographic surveying. Some time is given to topographic drawing. A complete topographic survey based on a system of triangulation is executed, including the calculations, and platting and completing the map. Some attention is given to the precise measurement of bases and angles. *Wilson's Topographic Surveying, and Pence and Ketchum's Surveying Manual. II.; daily; sections G, H, and GH, 8, 9; sections I, J, and II, 1, 2; (4).* Mr. PARKER, *G and I*; Mr. WATERBURY, *H and J*; Mr. GARDNER, *GH and II*.

*Prerequisite:* Civil Eng'g 21; Gen. Eng'g Drawing 1, 2; Math. 4.

23. RAILROAD CURVES.—A study is made of the geometry of the circle as applied to railroad curves and of the methods of locating curves in the field. *Allen's Railway Curves and Earthwork. II.; taken in connection with Topographic Surveying (C. E. 22); (1).* Mr. PARKER, Mr. WATERBURY, and Mr. GARDNER.

*Prerequisite:* Civil Eng'g 21, 22; Gen. Eng'g Drawing 1, 2; Math. 4.

24. METAL STRUCTURES.—A study is made of mill buildings, railroad trestles, mine structures, grain elevators, etc. *I.; A, Tu., 1-3; B, M., 1-3; C, Tu., 8-10; (1).* Mr. MALCOLM.

*Prerequisite:* Civil Eng'g 12, 13, 19, 20.

25. SEMINARY.—A weekly meeting for the reading and discussion of papers. Each student prepares and presents one major and two minor papers upon assigned topics, and participates in the discussion of other papers when called upon. Open only to senior civil engineering students. *II.; A, Th., 2, 3; B, W., 10, 11; C, W., 8, 9; (1).* Professor BAKER.

30. THESIS.—The preliminary work on the thesis is begun in the first semester, a weekly conference being required, but no specific time is set apart on the program for doing the work or for this conference. A credit of one semester hour is allowed for thesis work during the first semester. In the second semester weekly conferences are required, and a credit of two semester hours is granted. The preparation of the thesis may require more time than a three semester-hour subject. *I (1), II, (2). Time as assigned.* Professor BAKER.

## COURSES FOR GRADUATES

All primary unless otherwise stated.

- 101. Location and Construction.
- 102. Railway Track and Structures, and their Maintenance.
- 103. Yards and Terminals.
- 104. Motive Power and Rolling Stock.
- 105. Signal Engineering.
- 106. Railway Operation and Management.
- 107. Bridge Designing.
- 108. Cantilever and Swing Bridges.
- 109. Metallic Arches.
- 110. Metallic Building Construction.
- 111. Roof Construction.
- 112. Stereotomy.
- 113. History of the Development of Bridge Building—Secondary.
- 114. Water Power Development.
- 116. Engineering Jurisprudence.
- 117. Masonry Construction.
- 118. Advanced Graphic Statics.
- 119. Roads and Pavements.
- 128. Practical Astronomy.
- 129. Description of Work Done.
- 130. Critical Description of Engineering Construction.
- 131. Translation of Technical Engineering Works from French or German.
- 132. Any Primary in Theoretical and Applied Mechanics or Municipal and Sanitary Engineering.
- 133. Any Primary in Mathematics, Mechanical Engineering, or Electrical Engineering—Secondary.
- 134. Indexing of Civil Engineering Periodical Literature—Secondary.

## COMMERCE

See under Economics.

## CLAY WORKING

See under Ceramics.

## COMPARATIVE LITERATURE AND PHILOLOGY

1. GREEK LITERATURE.—From English readings. This course must be taken as Greek 14, which see.

2. LATIN LITERATURE.—From English readings. This course must be taken as Latin 12, which see.

3. DEVELOPMENT OF THE DRAMA.—(A)—Study of the Greek and Roman drama in English. *I.*; *Tu., Th.*; 8; (2). Professors MOSS and BARTON. (B)—Study of the Scandinavian, French, and German drama in English. *II.*; *Tu., Th.*; 3; (2). Professors DODGE, OLIVER and Assistant Professor MEYER.

*Prerequisite:* One year of University work.

4. GENERAL INTRODUCTION TO THE SCIENCE OF LANGUAGE.—The essential principles of the life and growth of language; outlines of the science of phonetics; classification of languages; characteristics of the various branches of the Indo-European family of languages; Indo-European phonology. *I.*; *Tu., Th.*; 1; (2). Dr. NEVILLE.

*Prerequisite:* Latin 3, Greek 4, German 1, or French 1.

6. HISTORICAL LATIN GRAMMAR.—Historical treatment of inflections and sounds of Latin in its relation to the other Indo-European languages. *II.*; *Tu., Th.*; 1; (2). Dr. NEVILLE.

*Prerequisite:* Latin 6; Philology 4.

7. HISTORY OF CLASSICAL PHILOLOGY.—*II.*; *M.*; 10; (1). Dr. NEVILLE.

*Prerequisite:* Latin 2; Greek 4.

## DAIRY HUSBANDRY

Five instructors give extended courses in the study of milk and its economic production; the characteristics of the dairy cow and the management of dairy farms; the separation of cream, and the making of butter and cheese; factory management; dairy bacteriology; city milk supply and the standardizing and pasteurizing of milk and cream.

1. MILK.—The secretion, character, and composition of milk. Practice in testing with the Babcock test, the lactometer, and the different acid tests. Tests for the purity of milk and for its adulteration. Lectures, reference readings, and laboratory practice. *I.; first half; daily; 1, 2; Sat.; 8, 9; I.; second half; daily; 1, 2; Sat.; 8, 9; (3).* Mr. TRUEMAN.

2. DAIRY CATTLE.—The principal characteristics of the dairy cow, special attention being given to dairy type and its bearing on economy of production. Difference in the efficiency of individual cows; and the improvement of dairy herds through the testing of the females and the continued use of pure-bred sires. Lectures, assigned readings, recitations, and practice in judging. *I.; first half; daily; 8, 9; (2½).* Mr. HOPPER.

7. FACTORY MANAGEMENT.—This course is designed especially for creamery buttermakers, factory cheese makers, and others wishing a more extended course in butter and cheese making than is offered in the other courses. It includes the study of special problems connected with the manufacture of butter and cheese; the management of creameries and cheese factories under private and co-operative ownership; locating, planning, building, equipping, and operating plants; creamery and cheese factory sanitation and products. Lectures, assigned readings, and laboratory work. *II.; second half; daily; 10, 11; Sat.; 8, 9, 10; (3).* Mr. LEE.

*Prerequisite:* Dairy Husbandry 19.

8. CITY MILK SUPPLY.—Proper methods of handling and preparing milk and cream for direct consumption; preventing contamination, pasteurizing, standardizing, modifying, bottling, transporting, and delivering. Certified milk; value of milk as a food. Milk commissions; legal requirements of cities and states. Lectures, reference readings, and laboratory practice. *II.; second half; daily; 10, 11; (2½).* Mr. TRUEMAN.

*Prerequisite:* Dairy Husbandry 1.

11. DAIRY BACTERIOLOGY.—The relation of bacteria to the dairy industry, showing where and to what extent milk may become contaminated, and how contamination may be largely avoided. The relation of bacteria to the changes that take place in milk; the effect of methods of handling, and of temperature upon the bacterial content of milk. The part that bacteria play in the manufacture of butter and cheese. This course consists largely of laboratory work,

lectures and assigned readings. *I.; first half; daily; 10, 11; (2½).* Mr. TRUEMAN.

*Prerequisite:* Dairy Husbandry 1 and Botany 12.

12. INVESTIGATION AND THESIS.—Subject arranged with instructor. (5, 10). Professor FRASER, Mr. LEE, Mr. TRUEMAN.

14. CHEDDAR CHEESE.—Practice in ripening and setting milk; cutting, cooking, and dipping the curd; cheddaring, milling, maturing, and salting curds; pressing and curing cheese. *I.; second half; daily; 1, 2; Sat.; 8, 9, 10; (3).* Mr. LEE.

*Prerequisite:* Dairy Husbandry 1.

15. FANCY CHEESE.—The making and curing of different varieties, such as Swiss, Edam, Gouda, brick, cottage, etc. *II.; second half; daily; 1, 2; (2½).* Mr. LEE.

*Prerequisite:* Dairy Husbandry 1.

16. FEEDING AND CARE OF THE HERD.—Composition of foods used on the dairy farm and their proper use. Compounding rations for dairy cows and the rearing of young stock for the dairy herd. Every member of the class is given some practice in feeding, yet additional special practice will be granted to a limited number. Lectures and recitations. *I.; second half; daily; 8, 9; (2½).* Professor FRASER, and Mr. HOPPER.

17. PURE-BRED HERDS.—This includes the history of the dairy breeds, their characteristics, and adaptation to different climatic conditions and commercial purposes. Importance of environment and food in securing and maintaining improvement in dairy cattle. A critical study of important families and the different breeds, giving particular attention to heredity. Selection of sires, weeding out and disposal of females, and surplus stock. Practice in scoring with the breed standards. Lectures, assigned readings, recitations. *II.; second half; daily; 8, 9; (2½).* Mr. HOPPER.

*Prerequisite:* Dairy Husbandry 2.

18. DAIRY FARM MANAGEMENT.—Dairy farming and its relation to soil fertility. Crops for the farm and their utilization, including pasturing, soiling, and the best methods of handling and feeding silage. The arrangement and construction of dairy farm buildings, silos, and yards. A comparison of the different methods of handling dairy herds and the conditions to which they are adapted. *II.; first half; daily; 8; (2½).* Professor FRASER.

*Prerequisite:* Dairy Husbandry 2 and 16.

19. BUTTER MAKING.—A study of the different systems of creaming milk and a comparison of different cream separators as regards efficiency under varying conditions; pasteurization; the use of different kinds of lactic ferments; ripening cream; churning; working; packing, and scoring butter. *I.; first half; daily; 1, 2; Sat.; 8, 9, 10; II.; first half; daily; 1, 2; Sat.; 8, 9, 10; (3).* Mr. LEE.

*Prerequisite:* Dairy Husbandry I.

20. DEVELOPMENT OF THE DAIRY INDUSTRY.—Dairying in different countries. The present condition of dairying in the United States, its magnitude and relation to other lines of farming. The influence of soil, climate, market conditions and location in determining special lines of dairy development. A study of experiment station literature. Lectures, and assigned readings. *II.; first half; daily; 2; Sat.; 8, 9, 10; (3).* Mr. HAYDEN.

*Prerequisite:* Two years of University work.

## DRAWING, GENERAL ENGINEERING

1. ELEMENTS OF DRAFTING.—This course includes lettèring, sketching and working drawings.

The instruction in lettering is limited to freehand styles and titles for drawings. *Wilson's Freehand Lettering.*

The drawing rooms have been equipped with standard machine forms, a bench drill, connecting rod, cross-head, hangers, bearings, sectioned valves, etc., from which measured sketches are drawn. Time sketches are made from machines in the shops and laboratories.

After the preliminary exercises in the use of drawing instruments working drawings are made from these sketches. Architectural students are given practice in drawing the orders of architecture instead of machine forms.

*I.; alternate days, 8, 9, 10, or 1, 2, 3, (five three-hour periods in two weeks); (4).* Assistant Professor WILSON, Mr. McMASTER, Mr. AGG, Mr. OTIS.

2 DESCRIPTIVE GEOMETRY.—Problems are solved relating to the point, line and plane, the properties of surfaces and intersections and developments. Lectures or recitations precede the work in the drawing room at each period. *Church's Descriptive Geometry*, accompanied by a syllabus and problem book. *II.; alternate days, 8, 9, 10, or 1, 2, 3 (five three-hour periods in two weeks); (4).* Assistant Professor WILSON, Mr. McMASTER, Mr. AGG, Mr. OTIS.

*Prerequisite:* General Engineering Drawing I.

ECONOMICS<sup>1</sup>

The department of economics includes general economics and economic history, sociology and statistics, finance, commerce, and industry. The courses are grouped to provide training for citizenship, graduate study and specialization in the lines mentioned above, and training for business life.

The courses in economics include: General Economics 1, 2, 3, 12, 16, 18, 20, 21, 101; Economic History, 7, 22; Finance, 4, 5, 6, 8, 9; Commerce, 26, 27, 28, 29, 30, 31, 32, 35, 104; Industry and Transportation, 10, 11, 13, 14, 25, 103; Statistics, 24, 33, 34; Sociology, 15, 17.

Courses 7, 22 and 26 are open to freshmen, without previous requirement; courses 101-104 are open to graduate students only; the other courses, except 7, 22, 26, are open to both graduate and undergraduate students.

1. PRINCIPLES OF ECONOMICS.—A beginners' course in underlying principles of the science, with some illustrations of their application to social and economic problems. *I.; daily; 11; (5).* Professor KINLEY, Mr. FIELD, Miss HERRON, and Mr. WELD.

*Prerequisite:* At least 30 hours of University work.

2. PRINCIPLES OF ECONOMICS.—This course in general economics is offered primarily to students in the colleges of engineering and agriculture. The course is offered each semester. In the first semester it is open *only to juniors and seniors in engineering and agriculture*. As repeated in the second semester, its character is more general and it may be taken by juniors or seniors in any of the colleges or schools of the University. *I.; Tu., Th.; 11; for agricultural students, M., W.; 3; (2)* Professor ROBINSON, Assistant Professor WESTON and Mr. FIELD. *II.; A., Tu., Th.; 11; B, W., F.; 11; (2).* Mr. FIELD.

3. MONEY AND BANKING.—The history and theory of money, credit and banking. *II.; M., W., F.; 11; (3).* Assistant Professor WESTON.

*Prerequisite:* Economics 1, or 2 and 7 or 22.

4. FINANCIAL HISTORY OF THE UNITED STATES.—A study of colonial and federal finance, including currency, banking, tariff and fiscal questions, and a brief survey of the development of the financial

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<sup>1</sup>These courses are described in greater detail in the circular on Courses of Training for Business.

systems of some of the leading states as New York and Illinois. *I.*; *M., W., F.*; 9; (3). Assistant Professor WESTON.

*Prerequisite:* Economics 1.

5. PUBLIC FINANCE.—A study of public expenditures, financial administration, taxation and public debts. *II.*; *M., W., F.*; 9; (3). Assistant Professor WESTON.

*Prerequisite:* Economics 1 and Political Science 1.

6. TAXATION.—A study of the theory and history of taxation and of special problems in taxation in the United States. For graduates and advanced students only. *I., II.*; *Tu., Th.*; 9; (2). Assistant Professor WESTON.

*Prerequisite:* Economics 4 and 5.

7. ENGLISH ECONOMIC HISTORY.—Special attention is directed to the evolution of modern industrial institutions. *I.*; *Tu., Th.*; 10; (2). Mr. FIELD and Miss HERRON.

8. THE MONEY MARKET.—An advanced course dealing with rates of exchange, functions of bill broker and banker, causes of fluctuations in rates of discount, the concentration of financial dealings at such centers as New York and London, international payments and the determination of rates of foreign exchange. *II.*; *Tu., Th.*; 10; (2). Assistant Professor WESTON.

*Prerequisite:* Economics 3. [Not given in 1906-7.]

9. BANKING.—A course in the study of practical banking, with special reference to the United States, England, Germany, France and the Orient. *I.*; *Tu., Th.*; 10; (2). Assistant Professor WESTON.

*Prerequisite:* Economics 3. [Not given in 1906-7.]

10. CORPORATION MANAGEMENT AND FINANCE.—The growth of corporations; their organization and securities, position and relations of stockholders and directors, analysis of reports, stock speculation, relation of industrial corporations to international competition, receiverships and reorganizations, social and political effects. *I.*; *M., W., F.*; 10; (3). Professor ROBINSON.

*Prerequisite:* Economics 1, or 2 and 7, or 22.

11. INDUSTRIAL CONSOLIDATIONS.—The development of industrial consolidations, their causes and forms; the promotion, financing, incorporation and capitalization of corporate consolidations; monopoly prices and monopoly methods; the ability of trusts to affect prices, wages, interest and profits; and the proposed plans for

controlling trusts, such as publicity, taxation of profits, and public ownership. *II.; M., W., F.; 10; (3).* Professor ROBINSON.

*Prerequisite:* Economics 10.

12. THE LABOR PROBLEM.—The labor movement and its social significance. The progress of the laboring classes, strikes, arbitration, labor organizations, and similar topics, which are studied, show the general character of the course. *I.; W., F.; 11; (3).* Professor KINLEY or Mr. FIELD.

*Prerequisite:* Economics 1, or 2 and 7 or 22.

13. RAILWAY MANAGEMENT.—This course considers from the administrative standpoint railways as factors in the social and industrial development of the United States and treats of the following topics:—(1) Historical: conditions of commerce and industry previous to the advent of the railways; primitive methods of transportation, etc.; (2) Geographical: the economic location of railways, etc.; (3) Organization: charter and franchises; capital stock; directors and stockholders; departments; the distribution of authority and responsibility; (4) Traffic management; (5) Financial: basis of capitalization; use of stocks and bonds; stock watering; distribution of earnings; reports and their interpretation, etc.; (6) Legal: rights and duties of railways; their status under the common and statute law; relation to leased lines; to employes; to patrons; taxation; public control through commissions. *I.; M., W., F.; 11 (3).* Professor ROBINSON.

*Prerequisite:* Economics 1, or 2 and 7, or 22. From junior and senior engineers Economics 2, only, will be required.

14. RAILWAY SYSTEMS.—This is a continuation of course 13. *II.; M., W., F.; 11; (3).* Professor ROBINSON.

*Prerequisite:* Economics 13.

15. CHARITIES AND CORRECTION.—This course deals with the causes of pauperism and crime, with the study of institutions for the care of dependents, and similar topics. *I.; Tu., Th.; 9; (2).* Mr. FIELD.

*Prerequisite:* At least 28 hours of University credit. [Not given in 1906-7.]

16. ECONOMIC PROBLEMS.—Section A, consisting of engineers, takes up the study of railway problems, taxation of corporations, and the labor question. Section B, composed of household science students, studies such subjects as expenditure and consumption, household budgets, certain aspects of the labor question and the ele-

ments of accounting. Section C, composed of students from the College of Agriculture, takes up special topics relating to agriculture. *II.; Tu., Th.; (2).* Section A, *II.* Professor ROBINSON; Section B, *II.* Miss HERRON; Section C., *M., W.; 3;* Assistant Professor WESTON.

*Prerequisite:* Economics 1, or (*for agricultural and engineering students*) 2.

17. SOCIOLOGY.—This course deals with the principles underlying social organization and with the nature and development of social institutions. Special attention is devoted to the study of the family, the state and to the subject of race assimilation in the United States. The latter part of the course is devoted to problems of social disintegration, particularly crime and pauperism. *II.; Tu., Th.; II; (3).* Mr. FIELD.

*Prerequisite:* At least 28 hours of University credit.

18. ECONOMIC SEMINARY.—For investigation and for the study of current economic literature. *I., II.; arrange time (4-8 for the year).* Professor KINLEY and the other instructors in the department.

20. HISTORY OF ECONOMIC THOUGHT.—The history of the development of economic theory since the sixteenth century. *I., II.; 2; (2).* Professor KINLEY.

*Prerequisite:* Ten hours in economics.

21. SOCIALISM AND SOCIAL REFORM.—*II.; M., W., F.; 2; (3).* Mr. FIELD.

*Prerequisite:* Economics 1, or 2 and 7 or 22.

22. THE ECONOMIC HISTORY OF THE UNITED STATES.—An inquiry into the trend of our development and into the physical, economic, and political forces which have directed and controlled it. Attention is given to the history of some specific great industries. *II.; Tu., Th.; 10; (2).* Professor KINLEY, Mr. FIELD, Miss HERRON, and Mr. WELD.

24. STATISTICS.—Those who do not wish the mathematical theory of probability may drop out of the class when that part of the subject is reached. For them the mathematical requirement for entrance is not enforced, and the course counts for three hours' credit. All who take the course must take both parts of it, as described under mathematics 26, which see.

26. COMMERCIAL GEOGRAPHY.—A brief study of the various natural and artificial conditions which affect commercial and industrial development, followed by a somewhat detailed consideration of the

more important products and industries of the different countries. While the first semester's work is of a general character, the course in the second semester deals primarily with the most important features of the industrial and commercial conditions of the United States. *I., II; Tu., Th.; section A, 1; section B, 2; (2).* Professor FISK.

This course should be taken with physiography.

27. HISTORY OF COMMERCE.—A general survey of ancient, mediæval and modern commerce, with special stress on the commercial development of recent times. This may be advantageously taken in connection with economics 30. Both courses are given during 1907-08 and every other year thereafter, alternating with economics 28 and 29. *I.; M., W., F.; 1; (3).* Professor FISK.

*Prerequisite:* Economics 7, 26, and six hours of history.

28. DOMESTIC COMMERCE AND COMMERCIAL POLITICS. — This course on internal trade includes a comparative study of the various forms of commercial organization, such as general wholesale and retail trade, department, coöperative, and company stores, peddling, huckstering and hawking, booths, auctions, commercial agents, including commercial travelers, and the coupon system. Other subjects considered are markets and fairs, stock and produce exchanges, trade companies, commercial and technical schools, modern advertising trade marks, unfair competition, etc. *I.; M., W., F.; 1; (3).* Professor FISK.

*Prerequisite:* Economics 1, 7, and 26.

29. FOREIGN COMMERCE AND COMMERCIAL POLITICS.—Continuation of course 28, but may be taken separately. A study of the various commercial systems (mercantile, free trade, and protective); classes and administration of customs tariffs; commercial treaties, including premiums, reciprocity and most favored nations relations; commercial statistics and balances; institutions for furthering export trade (commercial museums and bureaus of information, sample houses, consular reports, etc.) *II.; M., W., F.; 1; (3).* Professor FISK.

*Prerequisite:* Economics 1, 7, and 26.

30. HISTORY OF THE COMMERCIAL POLICY OF THE UNITED STATES. —This course includes an historical study of all those measures, such as tariff legislation, commercial treaties, laws regulating coastwise navigation, tonnage duties, reciprocity arrangements, bounties, subsidies, consular matters, etc., which have an important bearing on

the commercial side of the foreign relations of the United States. This is supplemented by a brief survey of the commercial policy of European countries. *II.; M., W., F.; 1; (3).* Professor FISK.

*Prerequisite:* Economics 1, 7, 22, 26, or an equivalent amount of economics and six hours of history. [Not given in 1906-7.]

31. HISTORY OF THE COMMERCIAL RELATIONS OF THE UNITED STATES.—This comprises a study of the general trade relations of the United States with foreign countries, as well as a more detailed consideration of our commercial relations with certain countries. For 1905-1906 the subject for special study was our economic relations with the countries of the far East (China, Japan, and Russia). It is desirable, though not required, that this course be taken in connection with 35. *I., II.; M., W.; 2; (2).* Professor FISK.

*Prerequisite:* Economics 1, 7, 26 and six hours of history.

32. DOMESTIC AND FOREIGN MARKETS OF THE UNITED STATES.—One hour a week is devoted to a study of the distribution and domestic marketing of American products, especially farm products, while the second hour is given to a study of foreign markets for American exports. The aim in the latter will be to consider how we may most advantageously develop our present foreign markets and open up new fields for American products. It is desirable, though not required, that this course be taken with 35. *I., II.; M., W.; 2; (2).* Professor FISK.

*Prerequisite:* Economics 27 and 30 or 28 and 29, or an equivalent amount of economics. [Not given in 1906-07.]

33. ECONOMICS OF INSURANCE.—The historical development of insurance, and an extended discussion of its economic aspects. The various forms of insurance,—fire, accident, employment and life,—from the standpoint of internal organization and from that of social service. Rates, policies, investments, corporate management, accounting, public supervision, and insurance law. *II.; Tu., Th.; 2; (2).* Professor ROBINSON.

*Prerequisite:* Economics 1, or 2 and 7, or 22. [Not given in 1906-07.]

34. CORPORATION ACCOUNTING.—The general principles of accounting and auditing in modern business. The reports of railway, banking and industrial corporations are analyzed. *I.; Tu., Th.; 10; (2).* Professor ROBINSON.

*Prerequisite:* Economics 1.

34a. AUDITING.—This course is based upon the work of course 34 and applies the principles of accounting to the auditing of various kinds of business enterprises. *II.; arrange time; (2);* Mr. CHASE and Professor ROBINSON.

*Prerequisite:* Economics 34.

35. CONSULAR AND DIPLOMATIC SERVICE.—The basis of this course is the consular and diplomatic regulations of the United States. Some attention, however, is paid to the foreign service of other important countries. It is desirable, though not required, that this course be taken with 31 or 32. *I., II.; F.; 2; (1).* Professor FISK.

*Prerequisite:* May be taken by any junior or senior who has had at least 3 hours each of economics, history and political science.

40. BIBLIOGRAPHY OF HISTORY AND THE SOCIAL SCIENCES.—A study of the literature of the subjects rather than of the subjects themselves. The history of thought in the subjects, as a part of the progress of culture, is traced in a brief way. Works representative of various periods and phases of the subject are assembled, and the masterpieces of each period are discussed in some detail. Each student is required to prepare a list of books on an assigned topic suited to the conditions of a selected community. *I.; arrange time; (1).* Various instructors.

#### COURSES FOR GRADUATES

All the courses above described except 1, 2, 7, 22, 26, and 40, may be taken as graduate work.

101. RECENT ECONOMIC THEORY.—Different topics are taken up and discussed from year to year, as time allows. For the year 1905-6 the subject of study is Theories of Wages and Profits. *I., II.; arrange time; (2 to 4).* Professor KINLEY.

103. SEMINARY IN RAILWAY ADMINISTRATION.—Advanced students in this subject make a detailed study of one of the branches of railway administration. *I., II.; arrange time; (2).* Professor ROBINSON.

104. SEMINARY IN COMMERCE.—A study of present international commercial relations, with special reference to the trade conditions of the United States and the extension of her trade to foreign markets. *I., II.; arrange time; (2).* Professor FISK.

## EDUCATION

The courses offered in the department of education aim to meet the needs of the prospective secondary school teacher, and of the prospective city superintendent.

1. PRINCIPLES OF EDUCATION.—The basis of a scientific theory of education, critically considered, from the standpoint of the individual in his relation to the mass. The more general problems of genetic psychology are studied, as well as those essential to the theory and art of teaching. The problems of school education. The making of a course of study. Method in teaching. The recitation. Examinations. Grading and promotion. The various branches, considered as school subjects. *I.; daily; 9; (5).* Professor DEXTER.

*Prerequisite:* Two years of University work.

2. HISTORY OF EDUCATION.—The development of educational theory and practice in their relation to the history of civilization. The educational problems of the earliest culture nations. The early Christian schools. Significance of scholasticism. The growth of the universities. The Reformation and its results. The lives and influence of the great educators. *II.; daily; 9; (5).* Professor DEXTER.

*Prerequisite:* Two years of University work.

3. GENERAL METHOD.—Application of the principles of education to the art of teaching. *II.; M., W., F.; 10; (3).* Assistant Professor Sisson.

4. CONTEMPORARY EDUCATIONAL CONDITIONS AND MOVEMENTS IN THE UNITED STATES.—The educational tendencies of today. Besides the broader meaning of the whole movement, the school systems of our larger cities and towns are carefully studied. *I.; Tu., Th.; 11; (2).* Professor DEXTER and Assistant Professor Sisson.

*Prerequisite:* Education 1 or 2.

5. A COMPARATIVE STUDY OF THE SECONDARY SCHOOLS OF FRANCE, GERMANY, ENGLAND, AND AMERICA.—The French Lycées, The German Gymnasias, the English Board, and the American Academies and High Schools. *II.; Tu., Th.; 11; (2).* Professor DEXTER and Assistant Professor Sisson.

*Prerequisite:* Education 1 or 2.

6. HIGH SCHOOL ORGANIZATION AND MANAGEMENT.—A discussion of the essential elements of a good high school, together with a consideration of the conditions existing in Illinois; proposed solution of the many problems of secondary education; desired lines

of progress; building up of an accredited high school; equipment, program making; courses of study; electives; discipline. *II.*; *M., W., F.*; 7; (3). Professor DEXTER and Assistant Professor Sisson.

11. OBSERVATION COURSE.—Students observe regularly and systematically the instruction in particular classes in the Academy and neighboring high schools. Definite assignments are made by the instructor and reports made by the student. Four observation periods and one conference weekly. *I., II.*; *arrange time*; (3). Assistant Professor HAMSHER. Open to Juniors and Seniors.

12. PRACTICE COURSE.—Students are assigned classes in available secondary schools for instruction under the supervision of the instructor or competent critic teachers. Lectures, conferences, and assigned readings form a part of the course. Either semester. *Arrange time*; (3). Assistant Professor HAMSHER. Open to Seniors.

13. EDUCATIONAL CLASSICS.—A critical study of the sources of the history of education. The more important educational works of Plato, Aristotle, Quintilian, Luther, Erasmus, Rabelais, Montaigne, Ascham, Mulcaster, Milton, Locke, Rousseau, Pestalozzi, Herbart, Froebel, Spencer, and others are considered. *I.*; *M., W., F.*; 2; (3) Assistant Professor Sisson.

*Prerequisite:* Education 1 or 2.

14. SCHOOL LAW.—A study of the development and present condition of school legislation in the United States. The school laws of Illinois are studied with special detail. *I.*; *Tu., Th.*; 2; (2). Assistant Professor Sisson.

15. SCHOOL HYGIENE.—This course includes the study of school architecture with reference to the location, heating, lighting and ventilation of school buildings, as well as other matters having to do with the personal health of the pupil. *II.*; *Tu., Th.*; 2; (2). Assistant Professor Sisson.

*Prerequisite:* Education 1 or 2.

16. SOCIAL PHASES OF EDUCATION.—A consideration of the school as a social factor, its relation to the home, the church, the state, and society. The relation of education to vocation and crime are also considered. *II.*; *M., W., F.*, 3; (3). Assistant Professor Sisson.

17. HERBARTIAN PEDAGOGICS.—The philosophy, psychology, and pedagogy of Herbart are critically studied and compared with other pedagogical systems. *I.*; *Tu., Th.*; 10; (2). Assistant Professor Sisson.

## COURSES FOR GRADUATES

(These courses, though primarily intended for graduates are open to properly qualified seniors.)

101a. SEMINARY IN THE HISTORY OF EDUCATION.—*I. Arrange time and number of credits.* Professor DEXTER.

101b. SEMINARY IN THE PHILOSOPHY OF EDUCATION.—*II. Arrange time and number of credits.* Professor DEXTER.

102. SEMINARY IN SCHOOL ADMINISTRATION.—*II. Arrange time and number of credits.* Assistant Professor HOLLISTER.

103. SEMINARY IN HIGH SCHOOL INSTRUCTION.—*I. and II. Arrange time and number of credits.* Assistant Professor HAMSHER.

104a. SEMINARY IN THE COURSE OF STUDY.—*I. Arrange time and number of credits.* Assistant Professor SISSON.

104b. SEMINARY IN SCHOOL HYGIENE.—*II. Arrange time and number of credits.* Assistant Professor SISSON.

## ELECTRICAL ENGINEERING

1. ELECTRICAL ENGINEERING.—Lectures and recitations accompanying Elec. Eng'g 21, laboratory practice; for students in mechanical engineering. Principles of electrical machinery; selection, installation and operation; distribution of power; motor applications. *II.; section A, Tu., Th.; 8; section B, Tu., F.; 8; (2).* Mr. BRYANT.

*Prerequisite:* Phys. 1 and 3, Math. 9.

2. ELECTRICAL ENGINEERING.—Lectures and recitations accompanying Elec. Eng'g. 26, laboratory practice; for students in civil engineering. Similar to Elec. Eng'g 1. *I.; Tu., Th.; 11; (2).* Mr. WILLSON.

*Prerequisite:* Physics. 1 and 3, Math. 9.

3. DYNAMO-ELECTRIC MACHINERY.—A short course including direct and alternating current machinery; for students in mechanical engineering. *I.; Tu., Th., 11; (2).* Mr. BRYANT.

*Prerequisite:* Phys. 1 and 3, Math. 9.

4. TELEGRAPHY AND TELEPHONY.—Fundamental principles of electrical signaling with illustrations from modern telegraphic methods. Wireless telegraphy. Theory of the telephone; commercial instruments; switching methods. Line construction. *I.; Tu., Th.; 8; (2).* Professor BROOKS.

*Prerequisite:* Phys. 4, Elec. Eng'g 16.

5. ALTERNATING CURRENTS.—A mathematical and graphical treatment of the principles of periodic currents, with theory of the transformers. Application of theory in generators, motors, and transformers. *I.*, *M.*, *W.*, *F.*; 8; (3). Professor BROOKS.

*Prerequisite:* Elec. Eng'g 16, Phys. 4.

6. ELECTRICAL ENGINEERING.—Transmission and distribution of power; application of motors, with especial reference to traction; for students in mechanical engineering. *II.*; *W.*, *F.*, *II*; (2). Assistant Professor GARDNER.

*Prerequisite:* Elec. Eng'g 3.

9. LIGHTING.—For architects. Electric lamps and other illuminants, and their effective use. Interior wiring. Methods of electrical distribution. *II.*; *Tu.*, *W.*; 10; *for nine weeks* (1). Professor BROOKS.

11. POWER PLANTS.—Principles governing location of electric power plants, both steam and hydraulic. Economical transmission distance. Selection and installation of generating units; management and testing of complete plants. *II.*; *F.*; 9; (1). Assistant Professor GARDNER.

*Prerequisite:* Elec. Eng'g 5 and 15.

12. ELECTRO-CHEMISTRY.—Theory and application upon an engineering scale of electrolysis and heat in the manufacture of metals and other products. The electric furnace. Storage battery engineering. *I.*; *W.*, *F.*; 10; (2). Professor BROOKS.

13. SEMINARY.—A weekly meeting for the discussion of topics from current periodicals, and of scientific papers, including advance copies of transactions of American Institute of Electrical Engineers. *I.*; *Th.*; 1, 2; (1); *II.*; *Th.*; 9, 10; (1). *I.* Assistant Professor GARDNER. *II.* Professor BROOKS.

*Prerequisite:* Elec. Eng'g 16.

14. ADVANCED ALTERNATING CURRENTS.—Development of the Steinmetz symbolic method, and application to single and polyphase machinery. *II.*; *M.*, *W.*, *F.* 8, *for 12 weeks*; (2). Professor BROOKS.

*Prerequisite:* Elec. Eng'g 5.

15. ELECTRIC DISTRIBUTION.—Economic arrangement of electric circuits; line construction, overhead and underground; interior wiring; effective lighting; *I.*; *M.*, *W.*, *F.*; 11; (3). Assistant Professor GARDNER.

*Prerequisite:* Elec. Eng'g 16.

16. DYNAMO-ELECTRIC MACHINERY.—Theory of the magnetic circuit and of flux. Fundamental principles of dynamos and motors; application of these principles, including alternating current machinery. *I.*; *M.*, *W.*, *F.*; 8; (3). Assistant Professor GARDNER. *II.*; section *G*, *M.*, *F.*; 8; *W.*; 10; section *H*, *M.*, *F.*; 8; *W.*, 10; (3). Professor BROOKS and Assistant Professor GARDNER.

*Prerequisite:* Phys. 1 and 3, Math. 9.

17. TRACTION.—Construction and equipment of electric railways; relative economy of steam and electric traction. *II.*; *Tu.*, *Th.*, 8; (2). Assistant Professor GARDNER.

*Prerequisite:* Theo. and Applied Mech. 8, 9 and 10, and Elec. Eng'g 16 and 5.

21. ELECTRICAL ENGINEERING LABORATORY.—For students in mechanical engineering. Illustrations of principles of dynamo machinery. Operation and care of dynamos, motors, and transformers. *I.*, 1, 2, 3; section *A1*, *M.*; section *A2*, *W.*; section *B1*, *Th.*; section *B2*, *F.*; (2). Mr. BRYANT, and Mr. WILLSON.

*Prerequisite:* Elec. Eng'g 1.

22. ELECTRICAL ENGINEERING LABORATORY.—Experimental study of direct current dynamos and motors; use of measuring instruments; operation of electric machinery; complete tests similar to those made by dynamo manufacturers. *II.*; 1, 2, 3; section *G1*, *F.*; section *G2*, *W.*; section *H1*, *M.*; section *H2*, *Tu.*; (2). Mr. BRYANT, and Mr. WILLSON.

*Prerequisite:* Elec. Eng'g 16.

23. ELECTRICAL ENGINEERING LABORATORY.—Study of alternating current instruments, dynamos, motors and transformers; regulation, efficiency, temperature and insulation tests. *I.*; 1, 2, 3; section *G1*, *M.*; section *G2*, *Tu.*; section *G3*, *F.*; ( $1\frac{1}{2}$ ). Mr. BRYANT and Mr. WILLSON.

*Prerequisite:* Elec. Eng'g 16 and 22.

24. ELECTRICAL ENGINEERING LABORATORY.—Advanced direct and alternating current testing; problems in transmission line losses; polyphase operation. *II.*; 1, 2, 3, 4; *M.*, *Tu.*, or *Th.*; (2). Mr. BRYANT and Mr. WILLSON.

*Prerequisite:* Elec. Eng'g 23.

26. ELECTRICAL ENGINEERING LABORATORY.—For students in civil engineering; similar to Elec. Eng'g 21. *I.*; *W.*; 9, 10, 11; or *S.*; 1, 2, 3; (2). Mr. WILLSON and Mr. AKERS.

*Prerequisite:* Registration in Elec. Eng'g 2.

27. ELECTRICAL ENGINEERING LABORATORY.—Photometry; testing of telegraph and telephone instruments and lines. *I.*; lecture, *F.*; 9; laboratory, 9, 10; section *G1*, *Th.*; section *G2*, *M.*; and section *G3*, *Tu.*; ( $1\frac{1}{2}$ ). Mr. BRYANT.

*Prerequisite:* Elec. Eng'g 16.

28. ELECTRICAL ENGINEERING LABORATORY.—A short course in laboratory practice, similar to Elec. Eng'g 21, intended for municipal and sanitary engineers. *I.*; *F.*, 1, 2; (*1*). Mr. BRYANT.

*Prerequisite:* Elec. Eng'g 1.

29. ELECTRICAL ENGINEERING LABORATORY.—To follow E. E. 21, for students in mechanical engineering; includes alternating current practice. *I.*; *Tu.*, 1, 2, 3; (*2*). Mr. BRYANT and Mr. WILLSON.

*Prerequisite:* Elec. Eng'g 6 and 21.

32. ELECTRICAL DESIGN. — Calculation and design of electromagnets and of dynamos direct and alternating, and of transformers. *I.*; section *G1*, *F.*, 1, 2, 3, and *M.*, 9, 10; section *G2*, *M.*, 1, 2, 3, and *Tu.*, 9, 10; section *G3*, *Tu.*, 1, 2, 3, and *Th.*, 9, 10; (*2*). Assistant Professor GARDNER and Mr. WENGER.

*Prerequisite:* Elec. Eng'g 16 and Phys. 4.

33. ELECTRICAL DESIGN.—Drawings and specifications for a complete plant, or design for a switchboard and distribution system. *II.*; section *G1*, *M.*, 9, 10, 11; section *G2*, *W.*, 9, 10, 11; (*1*). Assistant Professor GARDNER and Mr. WENGER.

*Prerequisite:* Elec. Eng'g 5 and 15.

35. THESIS.—Preliminary reading and investigation is done during the first semester without special assignment of credit; the credit granted the second semester often does not duly cover the time devoted to thesis work. Subjects must be chosen and approved before the first Monday in November. *II.*; time as assigned; (*3*). Professor BROOKS, Assistant Professor GARDNER, Mr. BRYANT and Mr. WENGER.

## COURSES FOR GRADUATES

### Primary

101. Theory of Alternating Currents.
102. Dynamo-Electric Machinery.
103. Alternating Current Machinery.
104. Electrical Transmission of Power.
105. Electric Light and Power Plants.
106. Electro-Metallurgy.

- 107. Polyphase Testing.
- 108. Electrical Engineering Research.
- 109. Electrical Design.
- 111. Theory of Equations.
- 112. Theory of Determinants.
- 113. Least Squares.
- 114. Differential Equations.
- 115. Calculus of Variations.
- 116. Spherical Harmonics.
- 117. Potential Function.
- 118. Advanced Physical Measurements.
- 119. Mathematical Physics.
- 120. Mathematical Theory of Electricity and Magnetism.
- 121. Physical Chemistry.
- 122. Metallurgical Chemistry.
- 123. Electro-Chemistry.

## ENGLISH LANGUAGE AND LITERATURE

The courses are designed to give a continuous view of the twofold subject from the earliest times to our own day. In junior and senior years courses are offered in both lines, so that students having had the fundamental work of the sophomore year, may, if they desire, specialize either in philology or in literature.

1. SELECT PERIODS OF ENGLISH LITERATURE.—*I*; section *A*, 8; section *B*, 9; section *C*, 9; section *D*, 10; section *E*, 11; section *F*, 11; section *G*, 1; section *H*, 2; section *I*, 3; (4). Assistant Professor BALDWIN, Assistant Professor PAUL, Miss PILLSBURY.

(This course is followed in the second semester by English 27.)

3. NINETEENTH CENTURY POETRY.—*I*, *II*.; *M*., *W*., *F*.; 10; (3). Miss PILLSBURY. (The second semester may not be taken by itself.)

*Prerequisite*: Eight hours of English.

4. PROSE WRITERS OF THE SIXTEENTH AND SEVENTEENTH CENTURIES.—Professor BALDWIN.

*Prerequisite*: Eight hours of English.

4a. NON-DRAMATIC POETRY OF THE SIXTEENTH AND SEVENTEENTH CENTURIES.—*I*, *II*.; *Tu*., *Th*.; 10; (2). Assistant Professor BALDWIN.

*Prerequisite*: Eight hours of English. [Not given in 1906-07.]

5. SHAKSPERE AND HISTORY OF THE DRAMA.—Primarily for graduates. *I., II.; M., W., F.; 9; (3).* Professor DODGE.

*Prerequisite:* Seven hours of English and either 3, 4a or 23. (The second semester may be taken without the first.)

6. HISTORY OF ENGLISH CRITICISM.—Primarily for graduates. *I., II.; Tu., Th.; 9; (2).* Assistant Professor PAUL.

*Prerequisite:* Ten hours of English.

7. ENGLISH FICTION.—*I., II.; Tu., Th.; 10; (3).* Miss PILLSBURY.

*Prerequisite:* Fourteen hours of English.

8. OLD ENGLISH (ANGLO-SAXON) GRAMMAR AND PROSE.—*I., II.; M., W., F.; II; (3).* Professor DODGE.

*Prerequisite:* At least 8 hours of English.

15. SEMINARY.—METHODS OF ENGLISH TEACHING.—Open to senior and graduate students. *I., II.; W.; 3; (1).* Professor DODGE, Assistant Professor BALDWIN.

*Prerequisite:* Fourteen hours of English.

16. HISTORY OF AMERICAN LITERATURE.—*I.; M., W., F.; section A, 9; section B, 1; (3).* Miss PILLSBURY.

*Prerequisite:* English 1.

17. HISTORY OF THE ENGLISH LANGUAGE.—Elementary course. *I., II.; Tu., Th.; 11; (2).* Assistant Professor PAUL.

19. THE LITERARY STUDY OF THE BIBLE.—*I., II.; M., W., F.; 10; (3).* Assistant Professor BALDWIN.

*Prerequisite:* 8 hours of English.

20. EIGHTEENTH CENTURY POETRY.—*II.; M., W., F.; 8; (3).*

*Prerequisite:* 7 hours of English. (Not given in 1906-1907.)

21. SOCIAL IDEALS IN ENGLISH LITERATURE OF THE NINETEENTH CENTURY.—*II.; M., W., F.; 8; (3).*

*Prerequisite:* 10 hours of English.

23. ELEMENTARY COURSE IN SHAKSPERE.—Introductory to English 5. *II.; M., W., F.; section A, 9; section B, 10; (3).* Assistant Professor PAUL.

*Prerequisite:* English 1.

24. BROWNING, RAPID CRITICAL READING.—*I.; M., W., F.; 11; (3).* Miss KYLE.

*Prerequisite:* 14 hours of English.

25. CHAUCER, CRITICAL READING OF THE PRINCIPAL POEMS.—*I.; Tu., Th.; 11; (2).* Professor DODGE.

*Prerequisite:* 10 hours of English.

26. ENGLISH BALLADS.—II.; Tu., Th.; 11; (2). Professor DODGE.

*Prerequisite:* 10 hours of English.

27. PROSE WRITERS OF THE NINETEENTH CENTURY.—II.; section A, 8; section B, 9; section C, 10; section D, 11; section E, 11; section F, 1; section G, 2; section I, 3; (4). Assistant Professor BALDWIN, Assistant Professor PAUL and Miss PILLSBURY.

*Prerequisite:* English I.

#### COURSES FOR GRADUATES

101. RESEARCH WORK IN ELIZABETHAN LITERATURE.—Professor DODGE and Assistant Professor BALDWIN.

102. EIGHTEENTH CENTURY WRITERS.—Special investigations. Professor DODGE and Assistant Professor PAUL.

103. NINETEENTH CENTURY LITERATURE.—Investigation of special problems. Assistant Professor PAUL and Miss PILLSBURY.

*See also Comparative Literature and Philology.*

#### ENTOMOLOGY

1. ELEMENTARY ENTOMOLOGY.—This course, open to all matriculated students, is complete in itself, but leads to the courses in general entomology. (Entomology 2 and 3.) The field and laboratory work is strictly entomological, but the lectures are largely upon general biology, with entomological illustrations. The subject is taught in part with a view to giving the prospective teacher of zoölogy command of entomological material for illustrative purposes. I., II.; Tu., Th.; 1, 2; (2). Dr. FOLSOM.

2. GENERAL ENTOMOLOGY.—This course and Entomology 3 form a year's connected major work in entomology, covering substantially the whole field. The present course is devoted mainly to field entomology in the fall and later to the morphological and physiological aspects of the subject. Beginning with the collection and preservation of specimens and the making of field observations, it is continued by laboratory studies of typical insects, made with special reference to the recognition of adaptive structures, and experimental work intended to determine their exact utilities. 1.; 10, 11; (5). Dr. FOLSOM.

*Prerequisite:* Zoölogy 10 or 1a, or Entomology 1 or 4.

3. GENERAL ENTOMOLOGY.—To be taken either with or without the preceding course. The classification and determination of insects,

the study of life histories in the insectary and by field observation, and the collection of information with respect to the œcological relations of insects, are the principal objects of this course. *II.*; *10*, *11*; (5). Dr. FOLSOM.

*Prerequisite:* Zoölogy 10 or 1a, or Entomology 1.

4. INTRODUCTION TO ECONOMIC ENTOMOLOGY.—Intended especially for students in the College of Agriculture. A lecture, field, and laboratory course acquainting the student with the general principles and essential elements of economic entomology. This course may be followed by one or more special courses corresponding to the subdivisions of the departments of agriculture and horticulture, and to be taught in connection with them. *I.*; *first half*; 8, 9; (2½). Professor FORBES and Dr. FOLSOM.

5. ADVANCED ENTOMOLOGY.—Under this head students desiring advanced work in entomology, especially as a preparation for thesis work in this subject, will be individually provided for on consultation with the entomological instructors. The course may be made to cover one or two semesters and to earn a three-hour or a five-hour credit in each. At least a three-hour course for one semester will be required as a preparation for entomological thesis work. *I.*, *II.*; *arrange time*; (3 to 5 each semester.) Professor FORBES or Dr. FOLSOM.

*Prerequisite:* Entomology 2, 3, or 4.

6. THESIS INVESTIGATION.—Students specializing in entomology will select a thesis subject, preferably during the junior year. They will be expected to give three hours a day to investigation upon it, under the supervision of an instructor, during their senior year. *I.*, *II.*; *arrange time*; (5). Professor FORBES and Dr. FOLSOM.

*Prerequisite:* At least a three-hour course in Entomology 5.

7. SYSTEMATIC ENTOMOLOGY.—This course, while primarily entomological, is designed to be of general use to students of biology. The lectures include a historical and critical survey of the systems of classification; a discussion of the aims and methods of classification; the nature of species, genera, and other groups, and the rules of nomenclature; the preparation of taxonomic articles, involving the study of bibliography, synonymy, analytical keys, etc. These subjects receive practical treatment in the laboratory, and to qualified students the unworked material of the State Laboratory of Natural History is available for study. *I.*, *II.*; *arrange time*; (3 each semester). Dr. FOLSOM.

*Prerequisite:* A semester course in Zoölogy or Entomology.

## COURSES FOR GRADUATES

Entomology 2, 3, 5, 6, and 7, may be taken as graduate courses.

## FRENCH

1. ELEMENTARY COURSE.—Grammatical study. Drill in pronunciation. Reading of simpler modern authors, with exercises in composition and conversation. *I., II.; section A, 8; section B, 9; section C, 10; section D, 11; section E, 1; section F, 2; section G, 3; (4).* Professor OLIVER, Assistant Professor CARNAHAN, Dr. JONES and Mr. HAMILTON.

2. MODERN PROSE, POETRY AND DRAMA.—Rapid reading of representative modern authors. Advanced syntax and composition. Conversation and reports on collateral reading. Outlines of French literature. *I., II.; section A, 10; section B, 1; (4);* Professor OLIVER and Assistant Professor CARNAHAN.

*Prerequisite:* French 1.

3. ADVANCED PROSE, COMPOSITION AND CONVERSATION.—This course may be taken alone, or more profitably with any course higher than French 2. It is especially designed for students in the courses in business training and for those intending to teach French. *I., II.; Tu., Th.; 9; (2).* Assistant Professor CARNAHAN.

*Prerequisite:* For students in the courses in business training, French 1; for other students, French 2.

9. NON-DRAMATIC LITERATURE OF THE SEVENTEENTH CENTURY.—Lectures on the culture and society of France in the seventeenth century as expressed in literature not dramatic. The great moralists, preachers and philosophers. Memoirs and Letters. The Art Poétique and the Satires of Boileau. The fables of La Fontaine. *I., II.; M., M., F.; 9; (3).* Professor OLIVER.

*Prerequisite:* French 2. [Not given in 1906-1907.]

10. MODERN FRENCH DRAMA.—A study of the drama in France from the beginning of the nineteenth century to the present time. Rapid translation and sight reading. Lectures. Reports on collateral reading. *I., II.; Tu., Th.; 11; (2).* Assistant Professor CARNAHAN.

*Prerequisite:* French 2.

11. THE LYRIC POETRY OF FRANCE.—Rise and growth of lyric poetry in France. The chief emphasis falls upon Victor Hugo, although the poets previous to Hugo and also his contemporaries re-

ceive attention. The principles of French versification are studied and illustrated, particularly in examples of Victor Hugo's poems. *I., II.; Tu., Th.; 10; (2).* Dr. JONES.

*Prerequisite:* French 2.

12. REALISTIC FICTION.—This course has Balzac as its central theme, and studies in detail the development of French realistic fiction. *I., II.; Tu., Th.; 10; (2).* Dr. JONES.

*Prerequisite:* French 2. [Not given in 1906-1907.]

13. LITERATURE OF THE EIGHTEENTH CENTURY.—Lectures on the society and culture of the eighteenth century in France. Break-up of the ideals of Classicism. Growth of the revolutionary spirit. First movements toward Romanticism. Montesquieu, Voltaire and the Encyclopedists, Rousseau, Diderot, Le Sage and the writers of the Revolution. The drama of the century. *I., II.; M., W., F.; 9; (3).* Professor OLIVER.

*Prerequisite:* French 2. [Not given in 1906-1907.]

14. CLASSIC FRENCH DRAMA.—A history of French drama from the beginning of the seventeenth to the end of the eighteenth century. The emphasis will fall on Corneille, Racine and Moliere in the seventeenth century; upon Marivaux, Voltaire, Beaumarchais, Le Sage and Sedaine in the eighteenth century. *I., II.; M., W., F.; 9; (3).* Professor OLIVER.

*Prerequisite:* French 2.

15. COURSE FOR TEACHERS.—Discussion of the various methods of teaching French in this country and abroad. Actual contact with class-room problems. *I.; M.; 3; (1).* Professor OLIVER, and other members of the department.

*Prerequisite:* Twenty-four hours' credit in French.

*For courses in Comparative Drama and in the Science of Languages see Comparative Literature and Philology.*

### COURSES FOR GRADUATES

Graduate students may pursue special courses under the direction of the head of the department. These courses will treat of the language and literature of the sixteenth century, of the history of Old French literature, and of the Historical Grammar of French and the other Romance Languages. In case the number of students be sufficient, a Seminar Course will be formed to meet their needs.

Students intending to qualify as teachers of French are advised to take courses in the Historical Grammar of the French language.

## GEOLOGY

Students expecting to specialize in geology should take courses numbered 5, 1, 2, 6, 7, 8, 9, 4, in the order named, except that 4 should run parallel with 8 and 9.

I. DYNAMIC AND HISTORIC GEOLOGY.—Dynamic and historic geology. Laboratory exercises in petrography and paleontology.

a. Dynamic Geology. The forces now at work upon and within the earth's crust, modeling its reliefs, producing changes in the structure and composition of its rock masses and making deposits of minerals and ores. A series of localities is studied in which great surface changes have recently taken place, with a view to ascertaining the character of the forces producing such changes, and the physical evidence of the action of like forces in the past.

b. Petrography of Fragmental Rocks. A laboratory study of fragmental rocks, following the same lines as indicated under 5b.

c. Historical Geology. Substantially an introduction to the history of geology. Especial stress is laid on the development of the North American continent.

d. Paleontology. The scheme of instruction in this subject places before the student the classification adopted for those organic forms occurring as fossils, together with the succession of the various groups in the strata, with the cause, as far as known, for their appearance and disappearance. The student is required to familiarize himself with selected groups of paleozoic fossils, abundant illustrations of which are placed in his hands. II.; 8, 9; (5). Professor ROLFE and Mr. Fox.

*Prerequisite:* Geology 5.

2. ECONOMIC GEOLOGY.—A study of the uses man may make of geologic materials; of the conditions under which they occur; and of the qualities which make them valuable. Readings, conferences and laboratory work. Each student may, with the approval of the head of the department, select one or more of the subjects indicated below and devote to it as much time as may seem desirable and profitable. The proportion of time devoted to reading, conference and laboratory will of course vary with the nature of the subject chosen. The new laboratory affords facilities for making the work thoroughly practical.

The subjects from among which students may elect for the purpose of special investigation. are as follows:

Ores and ore deposits; useful minerals other than ores, mineral synthesis. Petrographic studies, properties of clays, which fit them for various uses. Properties of lime and cement-making materials. Properties of building stones. Rock-flours and their uses. Origin and uses of road metals. Studies of ornamental stones. Coal and coal basins. Hydrographic studies. *Either or both semesters; arrange time; (2, 3 or 5).* Professor ROLFE, Mr. FOX, Mr. JONES.

*Prerequisite:* Geology 1, 3, 12 or 13.

3. GENERAL GEOLOGY, MINOR COURSE.—This course is an abridgment of courses 5, 1, 2, and 8. One hour each day is devoted to laboratory work, and this time is about equally divided between the study of minerals, rocks, and fossils.

The instruction is by text and lectures, using *Scott's Introduction to Geology* as the basis for the class-room work and a specially prepared guide for the laboratory. *I. or II.; 1 and 2; (5).* Professor ROLFE, Mr. FOX, Mr. JONES.

4. INVESTIGATION.—Students desiring to take advanced work in any department of dynamic or historical geology, in mineralogy, or in physical geography, with the approval of the head of the department, select a subject of investigation, and will receive such guidance and help as may be necessary. *Either semester; arrange time; (3 or 5).* Professor ROLFE, Mr. FOX, Mr. JONES.

*Prerequisite:* Such preliminary work as will enable the student to carry forward his investigation successfully.

5. ELEMENTS OF MINERALOGY, CRYSTALLOGRAPHY AND PETROGRAPHY OF CRYSTALLINE ROCKS.

a. Mineralogy and Crystallography. In the lectures such subjects as follows are discussed: Genesis of minerals; conditions favoring their deposition; origin of the massive and crystalline forms; relationships of minerals and their classification; the physical properties of minerals, with the conditions which may cause them to vary; the elements of crystallography, including a study of the typical whole, half, and quarter forms of each system, and their identification when in combination. In the laboratory the student is made acquainted with the simplest trustworthy methods of proving the presence or absence of the acids and bases. He is then required to determine a large number of species by their physical and chemical properties only; to trace the origin, transformation, and relationship of each; and explain any variations from the typical form, composition, or physical characters which may occur.

b. Petrography. The classification of rocks, the methods used in their determination, the conditions governing the formation of each species, the decomposition to which they are liable and the products of these decompositions. *I.*; 8, 9; (*for chemists 3 to 5*). Mr. Fox.

*Prerequisite:* Chemistry I.

6. ADVANCED CRYSTALLOGRAPHY.—During the first part of the semester a detailed study of the forms of crystals, their combinations and abnormalities is made. Later the student learns to measure the facial angles of crystals with the contact of reflecting goniometer, and by mathematical calculations to determine its species. *I.*; Tu, Th.; 10, 11; (2). Professor ROLFE and Mr. Fox.

*Prerequisite:* Geology 5 or 10.

7. OPTICAL MINERALOGY.—The student is first made acquainted with the peculiarities of the petrographic microscope. He then places thin sections of minerals and rocks under the microscope and learns to determine their species and the changes which are taking place in them by their effect on transmitted light. *I.*; M., W., F.; 10, 11, (3). Professor ROLFE and Mr. Fox.

*Prerequisite:* Geology 5 or 10.

8. See under Physical Geography.

9. ADVANCED PALEONTOLOGY.—The work outlined under geology 1d (p. 269) can do little more than introduce the general subject. To those who desire a better acquaintance with paleontology a course of one or two semesters is offered.

This course includes: (a) Discussion of the biological relations of fossil forms along the lines indicated in Williams' Geological Biology; (b) a discussion of the principles of classification as applied to fossils, together with the characteristics which distinguish the larger groups, using Nicholson, Bernard, and Zittel as guides; (c) a study of the distribution and variations of the genera and species of one or more of the important groups as illustrated by the collections of the University, using the various state reports and Miller's Handbook as aids. *I., II.*; 10, 11; (5) *either semester*. Professor ROLFE, Mr. Fox, Mr. JONES.

*Prerequisite:* Geology I or 3; a major in botany or zoology.

10. See under Physical Geography.

11. SHORT COURSE.—A course of eighteen lectures upon salient points in Geology for students in Agriculture only. *I.*; Tu., Th.; *First half*; 3; (1). Professor ROLFE.

12. AGRICULTURAL GEOLOGY.—A strictly technical course designed to meet the wants of the agriculturist. II.; 10, 11; (5). Professor ROLFE and Mr. JONES. Open to agriculture students only.

13. ENGINEERING GEOLOGY.—This is a strictly technical course dealing with those points which are especially useful to engineers. II.; 10, 11; (5). Mr. FOX and Mr. JONES. Open to engineers only.

14. METEOROLOGY.—This course is the same as the first half of 8, and is taken in the same class. It is offered especially to students in agriculture. I.; M., W., F.; 1 and 2; (3). Professor ROLFE and Mr. JONES.

### COURSES FOR GRADUATES

Courses 2, 4, 6, 7 and 9 may also be taken by graduates. The following are for graduates only:

102. ECONOMIC GEOLOGY.—The laboratories afford facilities for the study of problems in economic geology by the most approved methods. These problems may be approached from the geological side only in the laboratories of that department, or may be carried on under the joint direction of the departments of geology and applied chemistry.

Again, they may be purely laboratory problems; or the student may make an economic survey of some assigned area.

104. DYNAMIC GEOLOGY.—Problems in glacial geology; deserted lake basins; preglacial drainage; the Ozark ridge; water supply; origin of peculiar soils, etc.

108. PHYSICAL GEOGRAPHY.—Studies in Illinois geography, dealing with the topography, meteorology, climatology and natural products of the assigned areas.

### GERMAN

The instruction offered in this department includes elementary courses consisting of two years' work, and of advanced elective courses in the field of modern German.

I. ELEMENTARY COURSE.—*Voss's Essentials of German*, *Huss's German Reader*. I.; section A, 8; section B, 8; section C, 9; section D, 9; section E, 10; section F, 11; section G, 11; section H, 1; section I, 1; section J, 2; (4). Assistant Professor BROOKS, Miss BLAISDELL, Dr. DAVIS, Dr. ZORN, Mr. CHILES, Miss LAYTON, Miss SCHUMACHER.

3. NARRATIVE AND DESCRIPTIVE PROSE.—Grammar and syntax, reading of easy texts, exercises in prose composition. *II.*; *section A, 8; section B, 8; section C, 9; section D, 9; section E, 10; section F, 11; section G, 11; section H, 1; section I, 1; section J, 2; (4).* Assistant Professor BROOKS, Miss BLAISDELL, Dr. DAVIS, Dr. ZORN, Mr. CHILES, Miss LAYTON, Miss SCHUMACHER.

*Prerequisite:* German 1, or one year of high school German.

4. DESCRIPTIVE AND HISTORICAL PROSE.—Selections from standard prose writers. Sight reading. Prose composition. *I.*; *section A, 8; section B, 9; section C, 9; section D, 10; section E, 11; section F, 1; section G, 3; (4).* Assistant Professor MEYER, Assistant Professor BROOKS, Miss BLAISDELL, Dr. DAVIS, Dr. ZORN, Mr. CHILES.

*Prerequisite:* German 1 and 3, or two years of high school German.

5. INTRODUCTION TO CLASSICS.—Two of Schiller's dramas and Lessings's *Minna von Barnhelm*, or Goethe's *Egmont*, or *Hermann and Dorothea*. Prose composition. *II.*; *section A, 8; section B, 9; section C, 10; section D, 11; section E, 3; (4).* Assistant Professor MEYER, Assistant Professor BROOKS, Miss BLAISDELL, Dr. ZORN, Mr. CHILES.

*Prerequisite:* German 4.

6. SCIENTIFIC PROSE.—Practice in the rapid reading of works of a general scientific character. *II.*; *section A, 9; section B, 1; (4).* Dr. DAVIS, Dr. ZORN.

*Prerequisite:* German 4.

7. HEINE.—Rapid translation and sight reading of selections from Heine's works; study of his life and the Young Germany movement. *I.*; *M., W., F.; 2; (3).* Dr. DAVIS.

*Prerequisite:* German 5 or 6, or three years of high school German.

8. SCHILLER.—The life of Schiller and study of *Wallenstein* and other selections. *I.*; *M., W., F.; 10; (3).* Dr. ZORN.

*Prerequisite:* German 10 or 24 or 28.

9. GOETHE'S FAUST.—The Faust legend and early Faust books and plays, the genesis of Goethe's Faust, reading of both parts. *I., II.; Tu., Th.; 10; (2).* Assistant Professor MEYER.

*Prerequisite:* German 10.

10. GOETHE.—The life of Goethe and study of selections from

his lyrics, dramas, and prose works. *II.*; *M., W., F.*; 2; (3). Miss BLAISDELL.

*Prerequisite:* German 7 or 12 or 23.

11. HISTORY OF MODERN GERMAN LITERATURE.—Lectures, recitations, and reports on assigned collateral reading. *II.*; *Tu., Th.*; 2; (2). Assistant Professor BROOKS.

*Prerequisite:* German 7 or 12 or 23.

12. RECENT AND CONTEMPORARY PROSE FICTION.—Rapid reading of works by Freytag, Dahn, Heyse, Sudermann, and others. *I.*; *Tu., Th.*; 2; (2). Mr. CHILES.

*Prerequisite:* German 5 or 6, or three years of high school German.

16. ADVANCED PROSE COMPOSITION.—Translation of ordinary prose into German, study of idiomatic constructions, and practice in rendering at sight. The work is conducted, as far as practicable, in German, and is given with special reference to the needs of students who intend to teach German. *I.*; *M., W., F.*; 11; (3). Miss BLAISDELL.

*Prerequisite:* German 10 or 24 or 28.

19. HISTORICAL AND ECONOMIC READING.—Selections from standard writers in the field of history and economics. Primarily for students in business courses, but open to others. *I.*; *M., W., F.*; 1; (3). Mr. DAVIS.

*Prerequisite:* German 5 or 6, or three years of high school German.

20. COMMERCIAL READING AND COMPOSITION.—Practice in reading and in writing commercial German, with the use of *Whitfield and Kaiser's Commercial German*. *II.*; *M., W., F.*; 1; (3). Dr. DAVIS.

*Prerequisite:* German 19.

23. THE ROMANTIC SCHOOL.—Rapid translation and sight reading; reports on assigned reading. The course is offered as an alternative of course 7, although students may elect both. *I.*; *M., W., F.*; 11; (3). Assistant Professor MEYER.

*Prerequisite:* German 5 or 6, or three years of high school German.

24. RECENT AND CONTEMPORARY DRAMA.—Study of dramas by Heyse, Hauptmann, Sudermann, Fulda, and others. This course is

offered as an alternative of course 10, though students may elect both. *II.*; *M., W., F.*; *11*; (3). Dr. DAVIS.

*Prerequisite:* German 7 or 12 or 23.

25. **TEACHERS' COURSE.**—Lectures, discussion of methods, examination of text-books. Open to seniors and special students who have not less than 20 hours' credit in German. It should be accompanied or preceded by education 1 or its equivalent. *II.*; *F.*; 2; (1). Assistant Professor MEYER.

26. **GERMAN LITERATURE BEFORE THE REFORMATION.**—Lectures, recitations, and reports on assigned reading. This course is intended to cover the period not included in course 11, and students who intend to take course 1 or advised to elect course 26. *I.*; *Tu.*; 3; (1). Assistant Professor BROOKS.

27. **LESSING.**—The life of Lessing and study of *Nathan der Weise*, *Emilie Galotti*, and other selections. *II.*; *M., W., F.*; 10; (3). Mr. CHILES.

*Prerequisite:* German 8 or 10 or first semester of 9.

28. **GERMAN LYRICS.**—Study of the chief lyric poets with some attention to the historical development of the lyric. *II.*; *Tu., Th.*; 11; (2). Assistant Professor MEYER.

*Prerequisite:* German 7 or 12 or 23.

29. **CONVERSATION AND THEME WRITING.**—An advanced course aiming to give some facility in idiomatic expression in speaking and writing German. Conversation and themes on Germany and German life, based on suitable reading. *II.*; *Tu., Th.*; 3; (2); Dr. ZORN.

*Prerequisite:* German 16.

*For courses in the Drama and Science of Language see Comparative Literature and Philology.*

## COURSES FOR GRADUATES

101. **INTRODUCTION TO MIDDLE HIGH GERMAN.**—Open to seniors who have had German 10 or 24. *I.*; *M., W., F.*; 3; (3). Assistant Professor BROOKS.

102. **OLD HIGH GERMAN AND ELEMENTS OF HISTORICAL GRAMMAR.**—Reading of Old High German texts and historical study of German grammar. *II.*; *Tu., Th.*; 3; (2). Assistant Professor BROOKS.

*Prerequisite:* German 101.

103. **SEMINARY IN MODERN GERMAN LITERATURE.**—Open to seniors who are specializing in German. Some literary movement

or group of authors is studied and the reports presented may be revised and offered as thesis. *I. or II.; Tu., Th.; 3; (2 or 4).* Assistant Professor MEYER and Assistant Professor BROOKS.

### GREEK.

Courses 1 to 4, inclusive, are designed to meet the needs of students who cannot present Greek for entrance, and yet wish to study the language. The announcement of authors is tentative, and may be changed as the progress of the class required.

1. GRAMMAR AND READER.—*I.; M., Tu., W., Th., 11; (4).* Dr. NEVILLE.

2. GRAMMAR AND READER—*II.; M., Tu., W., Th.; 11; (4).* Dr. NEVILLE.

*Prerequisite:* Greek 1.

3. XENOPHON'S ANABASIS, with selections from the narrative parts of Thucydides. *I.; Tu., W., Th., F.; 10; (4)* Professor MOSS.

*Prerequisite:* Greek 2.

4. HOMER—ODYSSEY.—Selections. *II.; Tu., W., Th., F.; 10; (4).* Professor MOSS.

*Prerequisite:* Greek 3.

5. HERODOTUS.—Greek prose composition. *I.; M., Tu., W., Th.; 1; (4).* Professor MOSS.

*Prerequisite:* Entrance credits.

6. ANDOCIDES AND LYSIAS.—Greek prose composition. *II.; M., Tu., W., Th.; 1; (4).* Professor MOSS.

*Prerequisite:* Greek 5.

7. XENOPHON.—Memorabilia. *I.; M., W., Th., F.; 9; (4).* Dr. NEVILLE.

*Prerequisite:* Greek 6.

8. PLATO.—One or more complete dialogs, and selections. *II.; M., W., Th., F.; 8; (4)* Professor MOSS.

*Prerequisite:* Greek 7.

9. GREEK ORATORY.—*I.; M., W., F.; 9; (3).* Professor MOSS.

*Prerequisite:* Greek 8.

10. GREEK TRAGEDY.—*I.; Tu., Th.; 9; (2).* Professor MOSS.

*Prerequisite:* Greek 8.

11. HOMER.—*The Iliad.* *II.; M., W., F.; 11; (3).* Professor MOSS.

*Prerequisite:* Greek 8.

12. THUCYDIDES.—*II.*; *Tu., Th.*; *II*; (2). Professor Moss.

13. NEW TESTAMENT GREEK.—*II.*; *Tu., Th.*; 9; (2). Professor Moss.

*Prerequisite:* Greek 4.

14. GREEK POETRY.—Lectures and prescribed readings from English translations. *I.*; *Tu., Th.*; *II*; (2). Professor Moss.

15. GREEK PROSE.—Lectures and prescribed readings from English translations. *II.*; 9; (2). Professor Moss.

16. THE PRIVATE AND PUBLIC LIFE OF THE GREEK PEOPLE.—Lectures and prescribed readings. A large collection of photographs and lantern slides is used to illustrate this course. *I.*; *W.*; 8; (1). Professor Moss.

Courses 14, 15, and 16 are open to any student of the university above freshman year.

17. ADVANCED GREEK PROSE COMPOSITION.—*I.*; *arrange time*; (1). Professor Moss.

Courses 10, 12 and 17 may be taken as minors.

*Prerequisite:* Greek 6.

18. TEACHERS' COURSE.—Greek as a secondary school course. The problems of the classroom. Texts, methods, etc. *II.*; *arrange time*; (1). Professor Moss.

*See also courses in Comparative Literature and Philology.*

## COURSES FOR GRADUATES

101. GREEK ORATORY.—Professor Moss.

## HISTORY

*Introductory Courses for undergraduates only:—*

1. THE MEDIAEVAL AND MODERN HISTORY OF EUROPE. — This course taken as a whole will furnish the best general introduction to the advanced courses of the department, but the work of either semester may be taken separately. *I., II.*; *section A*, 8; *section B*, 9; *section C*, 2; (4). Assistant Professor SCHOOLCRAFT, Mr. ALVORD.

2. HISTORICAL INTRODUCTION TO CONTEMPORARY EUROPEAN POLITICS.—The history of Europe and its dependencies since the Peace of Utrecht. This course is especially adapted to the needs of students in the business courses, and of others who desire a brief survey of recent European development as an aid to the study of current economic and political problems. It may with ad-

vantage be combined with Economics 22. *I., II.; M., W., F.; 10; (3).* Professor GREENE.

3. THE HISTORY OF THE UNITED STATES.—The first semester will cover the colonial era, the Revolution, and the genesis of the federal constitution. The second semester will cover the history of the United States under the constitution. The work of either semester may be taken separately. This course may, with advantage, be combined with political science 1 and 3. *I., II.; M., W., F.; 8; (3).* Professor GREENE.

*Prerequisite:* One year of college work.

11. THE POLITICAL HISTORY OF ENGLAND.—This is a brief outline course, which may be advantageously combined with that in English economic history (Economics 7). *I.; M., W., F.; 10; (3).* Assistant Professor SCHOOLCRAFT.

#### COURSES FOR GRADUATES AND UNDERGRADUATES

[The ability to use French and German, though not absolutely required of students in the advanced courses, is exceedingly desirable. This group of courses is not open to freshmen.]

4. ENGLISH CONSTITUTIONAL HISTORY.—This course is recommended for students who wish to specialize in English history, in political science, or in law. *I., II.; M., W., F.; 11; (3).* Assistant Professor SCHOOLCRAFT.

*Prerequisite:* History I or II.

5. THE HISTORY OF GREECE.—*I., II.; M., W., F.; 10; (3).* Mr. ALVORD. (Not given in 1906-1907. Courses 5 and 6 will ordinarily be given in alternate years.)

6. THE HISTORY OF ROME.—*I., II.; M., W., F.; 10; (3).* Mr. ALVORD.

7. THE REVOLUTIONARY ERA IN EUROPE, 1763-1815.—*I.; M., W., F.; 9; (3).* Assistant Professor SCHOOLCRAFT. (Not given in 1906-1907.)

8. THE HISTORY OF EUROPE IN THE AGE OF LOUIS XIV.—Special attention will be given to England, France, and Germany; *I.; M., W., F.; 9; (3)* Assistant Professor SCHOOLCRAFT.. (This course may be withheld in 1906-1907, at the option of the instructor.)

*Prerequisite:* History I.

9. THE PERIOD OF THE ITALIAN RENAISSANCE.—II.; M., W., F.; 2; (3). Mr. ALVORD.

*Prerequisite:* History I.

10. THE DEVELOPMENT OF THE BRITISH COLONIAL EMPIRE.—I.; M., W., F.; 9; (3). Assistant Professor SCHOOLCRAFT. (Not given in 1906-1907.)

12. THE HISTORY OF GERMANY, 1648-1871.—Special attention is given to the rise of Prussia and the establishment of the new German Empire. II.; M., W., F.; 9; (3). Assistant Professor SCHOOLCRAFT.

*Prerequisite:* History I or 2. Ability to read German is also desirable.

13. AMERICAN COLONIAL HISTORY.—Special attention will be given to religious, social, and political institutions. II.; M., W., F.; 11; (3). Professor GREENE. (Not given in 1906-1907.)

14. SELECTED TOPICS IN AMERICAN CONSTITUTIONAL HISTORY.—1775-1860.—M., W., F.; 2; (5). Professor GREENE.

*Prerequisite:* History 3.

15. THE CONSTITUTIONAL AND POLITICAL HISTORY OF THE UNITED STATES SINCE 1860.—II., M., W., F.; 2; (3). Professor GREENE.

*Prerequisite:* History 3.

17. THE HISTORY OF ILLINOIS.—The subject is treated not from a purely local point of view, but as illustrating the development of a typical commonwealth in the Middle West. This course may properly be combined with political science 8. I.; Tu., Th.; 11; (2). Professor GREENE.

18. THE TEACHING OF HISTORY.—This course is intended especially for students who expect to teach History in secondary schools. II.; Tu.; 3; (1). Professor GREENE.

*Prerequisite:* History I and 3 or their equivalents.

19. SELECTED TOPICS IN THE HISTORY OF EUROPE DURING THE NINETEENTH CENTURY.—In 1906-1907, the topics will be chosen from the history of England. I.; Tu., and at the option of the instructor, Th.; 8; (3). Professor GREENE.

*Prerequisite:* History I. (Open only to seniors and graduates.)

## COURSES FOR GRADUATES

(Open also to seniors writing theses.)

101. SEMINARY IN AMERICAN HISTORY.—*I., II.; arrange time; (2 or more at the option of the students and the instructor).* Professor GREENE and Mr. ALVORD.

102. SEMINARY IN ENGLISH HISTORY.—This course is adapted to students who wish to write theses in English history. *I., II.; arrange time; (2 or more at the option of the students and the instructor).* Assistant Professor SCHOOLCRAFT.

## HORTICULTURE

The purpose of these courses is to acquaint the student with the principles and practice of fruit raising and vegetable gardening, both for home and market, and with successful methods of combating insect and fungus enemies.

1. PRINCIPLES OF FRUIT GROWING.—An introductory course dealing with the fundamental principles of fruit culture. It embraces a study of location with reference to climate and markets, planting, soil treatment, pruning, protection from insects and diseases, harvesting and marketing. It is advised that Botany I or II be taken before or contemporaneously with this course. Recitations, reference readings, and practical exercises. *I.; section A, M., W., F.; 10; section B, M., W., F.; 1; laboratory section A, Tu.; Th.; 10, 11; section B, 1, 2; (5).* Assistant Professor LLOYD.

2. SMALL FRUIT CULTURE.—A study of the strawberry, raspberry, blackberry, dewberry, currant, gooseberry, and cranberry. Each fruit is studied with reference to history, importance and extent of cultivation, soil, location, fertilizers, propagation, planting, tillage, pruning, insect enemies, diseases, varieties, harvesting, marketing, profits. It is advised that this course be preceded by Horticulture I. Recitations and reference readings with occasional practical exercises. *II.; Tu., Th.; 8; (2).* Assistant Professor LLOYD.

3. VEGETABLE GARDENING.—An introductory course embracing a study of the general principles of vegetable gardening and a brief consideration of the cultural requirements of each of the common vegetables. Special attention is given to the home garden. *II.; M., W., F., 8; (3).* Assistant Professor LLOYD.

4. PLANT HOUSES.—A study of the construction, cost, and heating of various types of plant houses, together with a brief consider-

ation of the management of certain vegetables under glass. Text-book and laboratory work. *I.*; *Recitations*, Tu., Th.; 8; *Laboratory*, M., W., F.; 8, 9; (5). Mr. BEAL.

5. PLANT PROPAGATION.—Grafting, budding, layering, making cuttings, pollination, seedage, etc. Text-book and laboratory work. *I.*; *second half*; *Recitations*; *section A*, M., W.; 10; *section B*, Tu., Th.; 2; *Laboratory*; *section A*, Tu., Th., S.; 10; 11; *section B*, M., W., F.; 1, 2; (2½). Mr. BEAL.

6. NURSERY METHODS.—A study of some details of nursery management and their relation to horticulture in general. Lectures and reference readings. *II.*; *first half*; *daily*, 3; (2½). Assistant Professor CRANDALL.

*Prerequisite*: Horticulture 1, 5; Entomology 4.

7. SPRAYING.—The theory and practice of spraying plants, embracing a study of materials and methods employed in the combating of insects and fungous diseases. Recitations, reference readings, and laboratory work. *II.*; *second half*; *Recitations*. Tu., Th.; 1; *Laboratory*, M., W., F.; 1, 2; (2½). Assistant Professor LLOYD.

*Prerequisite*: Horticulture 1, Entomology 4, Chemistry 1.

8. ORCHARDING.—A comprehensive study of pomaceous fruits (apple, pear, quince), and drupaceous or stone fruits (plum, cherry, peach, nectarine, apricot). Each fruit studies with reference to the points enumerated under 2 above. Lectures, text-books, and laboratory work. *II.*; *Recitations*, M., W., F.; 10; *Laboratory*, Tu., Th.; 10; 11; (5). Professor BLAIR.

*Prerequisite*; Horticulture 1; Botany 1 or 11.

9. FORESTRY.—This course embraces a study of forest trees and their natural uses, their distribution, and their artificial production. The relations of forest and climate are studied, and the general topics of forestry legislation and economy are discussed. *II.*; Tu., Th.; 11; (5). Professor BURRILL.

*Prerequisite*: Botany 1 or 11.

10. LANDSCAPE GARDENING.—An elementary course in ornamental and landscape gardening with special reference to the beautifying of home surroundings. Lectures illustrated by means of lantern slides, reference readings, practical exercises in the arrangement of home grounds and an out of door familiarity with the ornamental plants of the vicinity. The work of the first semester is repeated the second semester. It may be continued another semester

by means of reference readings and further practical exercises in the arrangement of both public and private grounds. *I. or II.; S.; 10, 11; Section A.; F.; 2; Section B.; F.; 3; Section C, S.; 9; (3).* Assistant Professor WYMAN.

*Prerequisite:* Two years of University work or special preparation.

11. STUDY OF CULTIVATED PLANTS.—A study of the relationship and classification of certain economic and ornamental plants of the temperate zone, including practice in the identification of species. Lectures, assigned readings and examinations of living plants and herbarium specimens. *I.; Tu., Th.; 8, 9; (2).* Professor BLAIR, Assistant Professor CRANDALL and Mr. BEAL.

*Prerequisite:* Botany 2.

12. EVOLUTION OF HORTICULTURAL PLANTS.—Comprising a study of organic evolution and the modification of plants by domestication. *I.; second half; daily; 10; (2½).* Assistant Professor CRANDALL.

*Prerequisite:* Two years of University work, including Horticulture 1 and Botany 2.

13. VITICULTURE.—A comprehensive study of the grape and its products. *I.; second half; daily 12; (2½).* Assistant Professor CRANDALL.

*Prerequisite:* Horticulture 1, 5.

14. NUT CULTURE.—The cultivation and management of nut-bearing trees for commercial purposes. *II.; first half; daily; 1; (2½).* Assistant Professor CRANDALL.

*Prerequisite:* Horticulture 1, 5.

15. COMMERCIAL FLORICULTURE.—A study of the growing of cut flowers and decorative plants. Recitations and practical exercise in the greenhouse. *II.; daily; 10; (5).* Mr. BEAL.

*Prerequisite:* Horticulture 4, 5. Botany 2.

16. GENERAL HORTICULTURE.—For students not registered in the College of Agriculture. A course covering the general principles and processes of fruit growing, vegetable gardening, floriculture and ornamental planting. *I.; daily; 9; (5).* Professor BLAIR, Assistant Professor LLOYD, Assistant Professor CRANDALL, Assistant Professor WYMAN, and Mr. BEAL.

17. COMMERCIAL HORTICULTURE.—A course giving practical training for those students intending to follow horticulture as a business. Work in houses, orchards, and gardens,—suited to ability and requirements of each student. Special permission required for ad-

mission into this course. *I., II.; arrange hours; (5-20).* Assistant Professor LLOYD, Assistant Professor CRANDALL, and Mr. BEAL.

18. EXPERIMENTAL HORTICULTURE.—A course for those intending to engage in professional horticulture or experiment station work. For advanced students. *I.; daily; 8; (5).* Professor BLAIR, Assistant Professor LLOYD, Assistant Professor CRANDALL.

*Prerequisite:* Twenty hours work in horticulture.

19. AMATEUR FLORICULTURE.—A study of window gardening and the growing of flowers on the home grounds, including the culture of roses and flowering shrubs. Recitations and practical exercises. *I., II.; Th., Sat.; 9; (2).* Mr. BEAL.

*Prerequisite:* Botany I or II.

20. MARKET GARDENING.—The application of the principles of vegetable gardening to operations on a commercial scale. Special attention is given to the preparation of vegetables for market. Lectures, reference readings and practical exercises. *II.; second half and summer vacation; arrange time; (2½-5).* Assistant Professor LLOYD.

*Prerequisite:* Horticulture 3.

21. SPECIAL VEGETABLE CROPS.—In this course the work of each student is largely individual, being an exhaustive study of some vegetable or group of vegetables from a horticultural standpoint. Reference readings and field experiments. *II.; second half and summer vacation; arrange time; (2½-5).* Assistant Professor LLOYD.

*Prerequisite:* Horticulture 3.

22. SPECIAL INVESTIGATION AND THESIS WORK.—Required of candidates for graduation. *I., II.; arrange time; (5-10).* Professor BLAIR, Professor BURRILL, Assistant Professor LLOYD, Assistant Professor CRANDALL.

23. LANDSCAPE DESIGN.—For students taking the Professional Course in Landscape Gardening. A study of the principles and composition of landscape as applied to public and private grounds. Lectures, reference readings and plans. *I., II.; arrange time, Friday or Saturday; (3).* The work may be begun in either semester. Assistant Professor WYMAN.

*Prerequisite:* Architecture 8, 17, 18.

24. LANDSCAPE HORTICULTURE.—For students taking the Professional Course in Landscape Gardening or who wish to continue their work in elementary landscape gardening. Exhaustive studies

of ornamental plants and methods of grouping the same for the effective planting of public and private grounds. *I., II.; arrange time, Friday or Saturday; (2).* The work may be begun in either semester. Assistant Professor WYMAN.

*Prerequisite:* Architecture 8, 18 or Horticulture 10.

### COURSES FOR GRADUATES

101. POMOLOGY.—Studies of special problems regarding the relationships, adaptations, improvement, propagation, cultivation, pruning, protection, preservation or marketing of orchard fruits. *Arrange time.* Professor BLAIR and Assistant Professor CRANDALL.

102. POMOLOGY.—Studies of special problems regarding the adaptations, propagation, cultivation or pruning of small fruits. *Arrange time.* Assistant Professor CRANDALL.

103. OLERICULTURE.—Studies of special problems regarding the structure, cultural requirements, and improvement of vegetables. *Arrange time.* Assistant Professor LLOYD.

104. FLORICULTURE.—Studies of the horticultural status of various flowering plants, or of special problems in the culture of greenhouse plants. *Arrange time.* Mr. BEAL.

105. FORESTRY.—Problems in general forestry and investigation of forest growths. *Arrange time.* Professor BURRILL.

### HOUSEHOLD SCIENCE

The courses of instruction given in the department are planned to meet the needs of two classes of students, viz.: (a) those students who specialize in other lines of work, but desire a knowledge of the general principles and facts of household science; (b) those students who wish to make a specialty of household science by a comprehensive study of the affairs of the home, together with the arts and sciences whose applications are directly connected with the management and care of the home.

1. PRINCIPLES OF THE SELECTION AND PREPARATION OF FOOD.—The nature and uses of food, its chemical composition, and the changes effected by heat, cold or fermentation. Practical illustrations of the principles of selection are given by marketing expeditions. Some of the processes of the manufacture of food are con-

sidered, as well as the combinations of different kinds. *II.*; *section A, M., W.*; 8, 9; *Quiz, F.*, 8; *section B, M., W.*; 10, 11; *Quiz, F.*, 10; *section C, M., W.*; 2, 3; *Quiz, F.*, 2; *section D, Tu., Th.*; 8, 9; *Quiz, F.*, 8; *section E, Tu., Th.*; 10, 11; *Quiz, F.*, 10; *Lecture, Tu.*; 1; (3). Miss BROCKETT.

*Prerequisite:* Entrance credit in Physics; Chemistry 1.

2. HOME ARCHITECTURE AND SANITATION.—The situation, surroundings, and construction of the house; the hygiene of the home; heating, lighting, ventilation, water supply, and drainage.. Lectures on house planning, with exercise in making skeleton plans, and on sanitary plumbing and fixtures and internal drainage.<sup>1</sup> *I.*; *Tu., Th.*; 9; (2). Professor BEVIER.

3. ELEMENTARY HOME DECORATION.—A continuation of course 2. Lectures<sup>2</sup> on the evolution of the house and the homes of primitive peoples, the theory of color and its application in home decoration. The evolution of the home, furnishings from a sanitary and artistic standpoint. *II.*; *Tu., Th.*; 9; (2). Professor BEVIER.

*Prerequisite:* Art and Design 1 and 16 and Household Science 2.

4. FOOD AND NUTRITION.—An application of the principles of pure science to the problems of food and nutrition. The problems may be physiological, chemical or bacteriological. Each student investigates some particular problem. *Novy's Physiological Chemistry. Government Bulletins.* *I.*; *Laboratory M., W., F.*; 10, 11; *Lecture, Tu.*; 10; *Quiz, Th.*; 10; (5). Professor BEVIER and Miss USHER.

*Prerequisite:* Botany 5; Chemistry 1, 3b, 4, 5c, 5a or 13a; 5 hours in Botany or Zoölogy; Household Science 1, 6, 5.

5. DIETETICS.—The work in dietetics includes the following topics. The principles of diet; the relation of food to health; influence of age, sex and occupation on diet, the construction of diets; dietetic treatment of certain diseases; principles of home nursing. Laboratory practice is given in the course. *II.*; *M., W., F.*; 11; (3). Miss USHER.

*Prerequisite:* Household Science 1, 6; Physiology 4.

6. ECONOMIC USES OF FOOD.—This course is a continuation of course 1. Emphasis is put upon the economic side of the food question. The uses and applications of preservatives are considered. *I.*; *section A, M., W.*; 8, 9; *section B, M., W.*; 2, 3; *section C,*

<sup>1</sup>By Professor White. <sup>2</sup>By Professors Ricker and Wells.

*Tu., Th.; 10, 11; Quiz, F., 8, 3; Lecture Tu.; 1; (3).* Miss BROCKETT.

*Prerequisite:* Household Science 1.

7. TEXTILES.—The development of primitive industries, production of fibers used in textile manufactures; properties of fibers, preparation, adulteration, manufacture. Practice is given in judging cloth and in the application of the principles of selection of color and design in costumes. *I.; Tu., Th.; 2; (2).* Miss GIBBS.

8. HYGIENE AND PUBLIC HEALTH.—In this course such phases of the subject are considered as have a direct practical bearing upon individual and public health. *II.; Tu.; 3; (1).* Professor BEVIER.

9. SEMINARY.—This course aims to make the student intelligent concerning the various phases of Home Economics. It includes a study of the work in different types of institutions, the planning of courses for these types and some practice in presenting the work. For advanced students. *I., II.; W.; arrange time; (1).* Professor BEVIER.

10. HOUSEHOLD MANAGEMENT.—This course deals with the organization of the household; expenditure of income; care of the house and family, including the cleaning of metals, woods, fabrics, and other essentials of a well ordered home. Open to juniors and seniors. *I.; Tu., Th.; 1; (2).* Miss VAN METER.

*Prerequisite:* Household Science 1, 6, 5.

11. TEACHERS' COURSE.—This course is designed for the prospective supervisor of the subject, or teacher in the graded schools. It aims to show the best method of presenting the work, and its correlation with other subjects. Practice is afforded in planning such courses, and some opportunity for presenting them. *II.; Tu., Th.; arrange time; (2).* Miss BEVIER.

Open to juniors and seniors.

*Prerequisite:* Household Science 1, 2, 3, 5, 6, 7, 9.

#### COURSES FOR GRADUATES

101. HOME ECONOMICS.—A study of the origin and development of Home Economics, with particular reference to its industrial, educational, and sociological aspects. *Arrange time.* Professor BEVIER.

102. SPECIAL INVESTIGATION.—Problems in the application of the principles of bacteriology, chemistry, and physiology, to the ordinary processes used in the preparation of food. *Arrange time.* Professor BEVIER.

## ITALIAN

1. GRAMMAR AND READING.—Italian grammar with composition. Reading of modern Italian. Toward the end of the year the class will begin the study of Dante. Outlines of Italian literature. *I., II.; M., W., F.; 10; (3).* Dr. JONES.

## LANDSCAPE GARDENING

For courses in Landscape Gardening see Horticulture 10, 23, and 24.

## LATIN

1. CICERO AND PLINY.—*De Amicitia*; selections from Pliny's letters; Roman life in Pliny's time; composition. Students offering three units in Latin will take this course. *I., II.; M., Tu., W., Th.; 8; (4).* Dr. NEVILLE.

2. LIVY.—Selections from the XXI. and XXII. books, and sight reading from book I. Students offering four units in Latin will take this course. *I.; M., Tu., W., F.; 9; (4).* Professor BARTON.

3. TERENCE.—Phormio, Roman literature with special reference to the development of comedy; Roman Life in Prose and Verse. *II.; M., Tu., W., F.; 9; (4)* Professor BARTON.

4. HORACE AND CATULLUS.—The Odes of Horace and the lyrics of Catullus. *I.; Tu., W., Th., F.; 2; (4).* Dr. NEVILLE.

*Prerequisite:* Latin 2, 3.

5. LATIN COMPOSITION.—This is an elementary course and will combine grammatical drill with practice in the simpler forms of expression. *I.; Tu., Th.; 9; (2).* Dr. NEVILLE.

6. PLAUTUS.—Four or five plays, one for careful study, the others for more rapid reading; scenic antiquities. *II.; Tu., W., Th., F.; 2; (4).* Professor BARTON.

*Prerequisite:* Latin 2, 3.

7. PROSE OF THE EARLY AND LATE EMPIRE.—Selections from Petronius, Pliny the Elder, Apuleius, and Minucius Felix. The Roman novel. *II.; Tu., Th.; 3 (2).* Dr. NEVILLE.

*Prerequisite:* Latin 1 or 2 and 3, 4, 6. [Not given in 1906-07.]

8. ROMAN SATIRE AND EPIGRAM.—Selections from Juvenal and Martial. History of Roman Satire. *II.; M., W., F.; 10; (3).* Dr. NEVILLE.

*Prerequisite:* Latin 1 or 2 and 3, 4, 6.

9. **TEACHERS' COURSE.**—The purposes and methods of preparatory Latin instruction; the teacher's preparation; the books, photographs, lantern slides, and stereopticon views most valuable in preparatory work. Three years' work in Latin is requisite for this course. In exceptional cases this requirement may be waived. *II.; M., W., F.; 10; (3).* Professor BARTON.

10. **LATIN COMPOSITION.**—A careful study of the idioms and leading principles of Latin composition with occasional imitation of assigned models. *I.; M., W., F.; 10; (3).* Professor BARTON.

*Prerequisite:* Latin 1 or 2 and 3, 5.

11. **THE ELEGIAC POETS.**—Tibullus, Propertius, and Ovid. *I.; M., W., F.; 10; (3).* Dr. NEVILLE.

*Prerequisite:* Latin 1 or 2 and 3, 4, 6. [Not given in 1906-07.]

12. **HORACE AND VERGIL IN ENGLISH TRANSLATIONS.**—Open to all students of the University except freshmen. *II.; M.; 3; (1).* Professor BARTON.

13. **ROMAN LIFE.**—Both the public and private life of the Romans will be considered but more particularly the latter. The geography and peoples of Italy, the organization of society, political and business life, the city of Rome, its public buildings, the home and home life, amusements, education, morals and religion will be some of the topics discussed. Lantern slides, pictures, and stereopticon views will supplement the lectures. Knowledge of Latin is not required. *II.; F.; 3; (1).* Professor BARTON.

14. **SENECA.**—Two or three plays; Roman tragedy; selections from the Epistles; Seneca as a teacher of morals. *I.; M., W., F.; 2; (3).* Professor BARTON.

*Prerequisite:* Latin 1 or 2 and 3, 5, 6.

15. **POETRY OF THE EARLY AND LATE EMPIRE.**—Selections from Lucanus, Calpurnius, Ausonius, and Claudianus. *I.; M., W., F.; 3; (3).* Professor BARTON.

*Prerequisite:* Latin 1 or 2 and 3, 4, 6.

16. **VERGIL.**—Selections from the Aeneid books 7-12, the Eclogues and portions of the Georgics. *II.; M., W., F.; 2; (3).* Dr. NEVILLE.

*Prerequisite:* Latin 1 or 2 and 3, 4, 6.

17. **TACITUS.**—Germania, and Agricola. *II.; M., W., F.; 9; (3).* Dr. NEVILLE.

*Prerequisite:* Latin 1 or 2, and 3, 4, 6.

*See also courses in Comparative Literature and Philology.*

## LAW

1. CONTRACTS.—Text-book, *Williston's Cases on Contracts*. I., II.; (3). Professor PICKETT.
2. TORTS.—Text-book, *Ames and Smith's Cases on Torts*. I., II.; (2). Professor CLARK.
3. REAL PROPERTY.—Text-book, *Gray's Cases on Property*. I., (2), II.; (3). Assistant Professor NORTHRUP.
4. COMMON LAW PLEADING.—Text-book, *Perry on Common Law Pleading*. II.; (2). Professor HARKER.
5. CRIMINAL LAW.—Text-book, *Beale's Cases on Criminal Law*. I.; (3). Professor HUGHES.
6. PERSONAL PROPERTY.—Text-book, *Gray's Cases on Property*. I.; (2). Assistant Professor NORTHRUP.
7. DOMESTIC RELATIONS.—Text-book, *Smith's Cases on Law of PERSONS*. II.; (2). Professor GREEN.
8. EVIDENCE.—Text-book, *Thayer's Cases on Evidence*. I.; (4). Professor HUGHES.
9. SALES.—Text-book, *Williston's Cases on Sales*. II.; (3). Professor CLARK.
10. REAL PROPERTY.—Text-book *Gray's Cases on Property*. I.; (2). Assistant Professor NORTHRUP.
11. AGENCY.—Text-book, *Wambaugh's cases on Agency*. II.; (3). Professor GREEN.
12. EQUITY.—Text-book, *Ames' Cases on Equity*. I., II.; (3). Professor PICKETT.
13. DAMAGES.—Text-book, *Beale's Cases on Damages*. I.; (2). Professor GREEN.
14. BAILMENTS AND CARRIERS.—Text-book, *McClain's Cases on Carriers*. I.; (2). Professor GREEN.
15. BILLS AND NOTES.—Text-book, *Ames' Cases on Bills and Notes*. I., II.; (2). Professor PICKETT.
16. TRUSTS.—Text-book, *Ames' Cases on Trusts*. I.; (3). Professor CLARK.
17. PRIVATE CORPORATIONS.—Text-book, *Smith's Cases on Private Corporations*. I.; (3). Professor HUGHES.
18. WILLS AND ADMINISTRATION.—Text-book, *Gray's Cases on Property, Vol. IV.* II.; (2). Assistant Professor NORTHRUP.

19. PARTNERSHIP.—Text-book, *Ames' Cases on Partnership*. II.; (2). Assistant Professor NORTHRUP.

20. EQUITY PLEADING.—Text-book, *Shipman on Equity Pleading*. II., (2). Professor HARKER.

21. SURETYSHIP AND MORTGAGES.—Text-books, *Ames' Cases on Suretyship and Wyman's Cases on Mortgages*. I., II.; (2). Professor CLARK.

22. CONSTITUTIONAL LAW.—Text-book, *McClain's Cases on Constitutional Law*. I., II.; (2). Professor GREEN.

24. MUNICIPAL CORPORATIONS.—Text-book, *Smith's Cases on Municipal Corporations*. II.; (1). Professor HUGHES.

26. MOOT COURT.—I., II.; (1). Professor HARKER.

### LIBRARY SCIENCE

1. ELEMENTARY LIBRARY ECONOMY.—Instruction follows the regular library routine. The work of the order department is taught by lectures and practice. American, English, French, and German trade bibliography is introduced. Instruction in the accession department is according to Dewey's Library School Rules. Lectures are given upon duplicates, exchanges, gifts, importing, copyright, and allied topics. The Dewey decimal classification is taught by classifying books. In the shelf department Dewey's Library School Rules is used and supplemented with lectures. Sample shelf-lists are made with both sheets and cards. Cataloging is taught according to Dewey's Library School Rules and Cutter's Rules for a Dictionary Catalog. After each lecture students are required to catalog independently a number of books, and to modify the rules to suit different types of libraries. A month of independent cataloging for the University library follows the instruction in cataloging. Lectures on card catalogs and mechanical accessories. I., II.; daily; 9; (5). Assistant Professor PRICE.

2. ELEMENTARY REFERENCE.—The aim of this course is to train students in method of research and to familiarize them with the principal reference books. Lessons are assigned on reference books considered in groups, such as indexes, dictionaries, encyclopedias, atlases, hand-books of history, hand-books of general information, quotations, statistics, etc. Reference lists are prepared for special classes and for literary societies, and the students have practical work in the reference department of the library. I., II.; section A, Tu., Th.; section B, W., F.; 8; (3). Assistant Professor SIMPSON.

3. **SELECTION OF BOOKS.**—Lectures are given upon the method of selecting books for libraries of different types and sizes. Critical periodicals are studied with a view to their aid in making selections. The class will have actual experience in choosing books for which the Publishers' Weekly and the Cumulative Book Index form the basis. A certain number of representative new books are purchased that the students may have the opportunity of reading before discussing them in class. The discussions treat of the merits of the books, their relation to other works of the same authors and to books on the same subjects, also of their value to different libraries. Special attention is given to good library editions of standard authors and lectures are supplemented by an example collection. The work for the first semester, 1905-1906, included a series of lectures on children's work by an experienced children's librarian, and it is planned to repeat this course every second year. This course is continued as a part of Library 6. *I., II.; M.; 8; (2).* Assistant Professor PRICE.

4. **ELEMENTARY LABORATORY COURSE.**—The purpose of this course is to familiarize the students with the minor work of a library and to teach them to make and to use the records in the University library. The arranging of the books in the stack room is assigned to the students to bring them into contact with the book collection as a whole. Practical work in the various departments of the library is assigned to each student as soon as possible after the work has been studied in their other courses. One hour each week is devoted to a report from the class of the work done the previous week, thus giving the entire class the benefit of the experience of each member. *I., II.; daily; Lecture, M.; Laboratory, 4 periods per week; 11; (3).* Miss HOWE.

*Prerequisite:* Library 1, 2.

5. **ADVANCED LIBRARY ECONOMY.**—Advanced and comparative cataloging and classification. Problems in organizing and reorganizing libraries. The class discusses questions affecting the founding and government of libraries, library legislation, library architecture, library administration, and current problems in public and college library work. This course includes one hour of library 14. *I., II.; M., Tu., W., Th.; 11; F.; 10; (5).* Professor SHARP.

*Prerequisite:* Library 4.

6. **BIBLIOGRAPHY.**—Lectures on the principles underlying selection of books by professors from different departments. These lectures are supplemented with class work and problems from the

librarian's point of view. Students in this course take the bibliography of history and the social sciences (Econ. 40). *I., II.; Tu., Th.; 10; (4).* Professor SHARP and others.

7. HISTORY OF LIBRARIES.—The history of the leading ancient, mediæval, and modern libraries. The library movement in the United States. Libraries are studied by types and by countries, with particular attention to the relation between the social, intellectual, and political movements in each country and the growth of libraries. This course is supplemented with Library 14 in a study of library reports and other publications. *I.; W.; 10; (2).* Assistant Professor SIMPSON.

8. ADVANCED REFERENCE.—Advanced reference books, including important transactions of societies, periodicals, special indexes, and other publications of special value in reference work in a university library. Reports on current events. Emphasis is laid upon problems in difficult research work. This course is intended primarily for students who are preparing for college library positions, but may be elected by any one who has satisfactorily completed Elementary Reference. *I.; M.; 10; (2).* Assistant Professor SIMPSON.

*Prerequisite:* Library 2.

9. BOOK-MAKING.—A brief history of writing, of the early forms of books, of the invention and spread of printing, of book illustration, and of the art and practice of binding. *II.; W.; 10; (2).* Professor SHARP.

10. ADVANCED LABORATORY COURSE.—This course consists of two hours' work daily in the various departments of the University library, giving the students practical experience in all lines of library work. Reference lists are compiled for the Women's clubs in the vicinity of the University; work at the reference desk is required, the students having full charge and answering all questions asked by the readers in the room; work at the loan desk is given, the students working under the direction of the regular attendants. Cataloging, including shelf-listing and classification, is assigned in logical sequence, the work being upon the current accessions to the library, including Danish, German, French, Spanish, Greek and Latin books, no small percent of which are on technical subjects. Practically all of the accessioning for the library is done by the students. Work is also given in the order, periodical, and binding departments. Each student has charge of some one piece of work

through the year, such as writing reviews of the new reference books, or making lists of articles of general interest in each month's magazines, each of which is published in the college paper. One hour each week is devoted to reports of the work done the previous week, so that each student has the benefit of the experience of the others. *I., II.; daily; Lecture, M.; 2; Laboratory, 9 periods per week; arrange time; (5).* Miss HOWE.

*Prerequisite:* Library 4.

11. THESIS.—Each student is required to prepare a thesis for graduation. This must be on some library topic, and must represent original research. An original bibliography, instead of a thesis, may be presented upon the approval of the director, or a seminar for research work on various topics to be suggested, may take the place of a thesis at the discretion of the director. *I., II.; arrange time; (2).* Professor SHARP.

12. GENERAL REFERENCE.—This course is offered to all students. It comprises lectures on the catalog, classification, the reference-room, the reading-room, and groups of books, such as indexes, dictionaries, encyclopedias, atlases, hand-books of general information, hand-books of history, statistics, quotations, etc. *I.; Tu.; 3; (2).* Miss ROYCE.

13. PUBLIC DOCUMENTS.—This course covers the study of federal documents, together with the study of the formation of government as expressed in its publications. Documents are studied both for their value as reference books and for correct methods of cataloging. Methods of printing and distribution, and important indexes, both general and special, are considered. Practical reference questions are given, and a sample catalog is made illustrating the various principles. The work offered during the second semester is elective, supplementing the work of the first semester on federal documents and including some of the more important state documents. *I., II.; W., F.; 2; (2).* Miss JACKSON.

*Prerequisite:* Library 1, 2.

14. LIBRARY EXTENSION.—Fourth and fifth year students meet together once a week to examine library publications and to consider them in their relation to library history, biography, and administration. Once a week the fourth year students alone meet to discuss such topics as library associations, library schools, library commissions, traveling libraries, home libraries, and principles underlying the relation of the library to the public. *I., II.; M., F.; 10; (2)* Professor SHARP.

## MATHEMATICS

Those students who take *mathematics* as their major work should take the courses in mathematics numbered 1, 3 (or 2, 4), 6, 8a, 8b, 10, 11, 15, 16, 17. They should also make sixteen hours' credit in either German or French. They are advised to take also physics 1, 3.

1. ADVANCED ALGEBRA.—This course is offered for those students who wish to cover in five hours of mathematical work the subject of college algebra and that of plane and spherical trigonometry (Math. 3). The course presupposes a thorough working knowledge of elementary algebra through simultaneous quadratics. The same subjects are considered as in course 2, but more briefly. *I.; last seven weeks; daily; 10; (2).* Mr. MILNE.

<sup>1</sup>2. ADVANCED ALGEBRA.—This course is for those students who wish to cover in five hours of mathematical work the subject of college algebra and that of plane trigonometry (Math. 4.)

The following topics are considered: Progressions, undetermined coefficients, binomial theorem, logarithms, permutations and combinations, probability, convergence of series (or determinants), and the theory of equations, with special reference to the solution of numerical equations of the third and fourth degree. *Sections A to O are for engineers, sections P to T are for students of the College of Science, and the College of Literature and Arts. I.; last eleven weeks; daily; section A, 1; section B, 11; section C, 9; section D, 10; section E, 1; section F, 8; section G, 10; section H, 2; section I, 8; section J, 11; section K, 9; section L, 2; section M, 10; section N, 3; section O, 10; section P, 11; section Q, 1; section R, 2; section S, 9; section T, 10; (3).* Assistant Professor RIETZ, Assistant Professor SLOCUM, Mr. MILNE, Dr. COAR, Mr. PONZER, Miss WHITE, Mr. LYTLE, Dr. NEIKIRK, Mr. RISLEY, Mr. EMMONS, Mr. REDDICK.

3. PLANE AND SPHERICAL TRIGONOMETRY.—This course covers the same ground in plane trigonometry as course 4. In addition to the work outlined there, about four weeks are spent on the general principles and applications of spherical trigonometry. *I.; first eleven weeks; daily; 3; (3).* Mr. MILNE.

*Prerequisite:* Solid and Spherical Geometry.

4. PLANE TRIGONOMETRY.<sup>1</sup>—Sections A to O are for engineers, sections P to T are for students of the College of Science, and the

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<sup>1</sup>Two sections, N, J, repeat the work in the second semester.

College of Literature and Arts. *I.*; *first seven weeks; daily; section A, 1; sections B, 11; section C, 9; section D, 10; sections E, 1; section F, 8; section G, 10; section H, 2; section I, 8; section J, 11; section K, 9; section L, 2; section M, 10; section N, 3; section O, 10; section P, 11; section Q, 1; section R, 2; section S, 9; section T, 10; (2).* Assistant Professor RIETZ, Assistant Professor SLOCUM, Mr. MILNE, Dr. COAR, Mr. PONZER, Miss WHITE, Mr. LYTLE.

Section U is taught on Tuesdays and Thursdays throughout the first semester, at the eighth hour, for students registered in the preliminary medical course.

5. **TEACHER'S COURSE.**—In this course special attention is given to a discussion of the methods of teaching algebra and geometry, the position of mathematics in the secondary school course, the correlation of mathematics with allied subjects, a comparative study of the leading text-books, and a brief history of elementary mathematics. *Tu., Th.; 2; (2).* Mr. COAR.

6. **ANALYTICAL GEOMETRY.**—The aim is to acquaint the student with analytical methods of investigation and to familiarize him with the general properties of conics, including a discussion of the general equation of the second degree and its geometrical interpretation. Special emphasis is placed upon the use of algebraic processes as a means of demonstrating geometrical properties of loci. To this is added a brief course on the analytical geometry of three dimensions, including co-ordinate systems in space, the relations of points, straight lines, and planes in space, as also the general properties of surfaces of second order. Sections A to O are for engineers, sections P to R are for students of the College of Science, and the College of Literature and Arts. *II.; daily; section A, 1; section B, 11; section C, 9; section D, 10; section E, 1; section F, 8; section G, 10; section H, 2; section I, 8; section J, 11; section K, 9; section L, 2; section M, 10; section N, 3; section O, 10; section P, 11; section Q, 1; section R, 8; (5)*<sup>1</sup>. Assistant Professor RIETZ, Assistant Professor SLOCUM, Mr. MILNE, Dr. COAR, Mr. PONZER, Miss WHITE, Mr. LYTLE, Dr. NEIKIRK, Mr. RISLEY, Mr. EMMONS, Mr. REDDICK.

*Prerequisite:* Mathematics 1, 3 or 2, 4.

7. **DIFFERENTIAL CALCULUS.**—The principles of the differential calculus are developed and applied to functions of one and of several variables, with special reference to the needs of engineering

<sup>1</sup>Two sections, N, J, repeat the work in the second semester.

students. *I.*; section *A*, 8; section *B*, 8; section *C*, 8; section *D*, 1; section *E*, 1; section *F*, 1; section *G*, 10; section *H*, 10; section *I*, 8; section *J*, 8; (5). Assistant Professor RIETZ, Assistant Professor SLOCUM, Dr. COAR, Mr. MILNE, Mr. PONZER, Miss WHITE, Mr. LYTLE.

*Prerequisite:* Mathematics 6.

8a. DIFFERENTIAL AND INTEGRAL CALCULUS.—A general introduction to the principles of differential and integral calculus. *I.*; *daily*; 8; (5). Professor TOWNSEND.

*Prerequisite:* Mathematics 6.

8b. DIFFERENTIAL AND INTEGRAL CALCULUS (Advanced Course).—A continuation of 8a. The application of calculus to geometry and mechanics, begun in 8a, is extended throughout the course. *I.*, *II.*; *Tu.*, *Th.*; 1; (2). Professor TOWNSEND.

*Prerequisite:* Mathematics 8a.

9. INTEGRAL CALCULUS.—This course together with mathematics 7 constitutes a year's continuous work in calculus. The general principles of the integral calculus are developed with usual applications to geometry, centers of gravity, moments of inertia, etc. A brief introduction to ordinary differential equations is also included. *II.*; section *A*, 8, *M.*, *W.*, *F.*; section *B*, 8, *M.*, *W.*, *F.*; section *C*, 8, *M.*, *W.*, *Th.*; section *D*, 1, *M.*, *Tu.*, *Th.*; section *E*, 1, *M.*, *Tu.*, *Th.*; section *F*, 1, *M.*, *W.*, *F.*; section *G*, 10, *M.*, *W.*, *Th.*; section *H*, 10, *M.*, *W.*, *Th.*; section *I*, 8, *Tu.*, *Th.*, *F.*; section *J*, 8, *Tu.*, *Th.*, *F.*; (3). Assistant Professor RIETZ, Assistant Professor SLOCUM, Mr. MILNE, Dr. COAR, Mr. PONZER, Miss WHITE, Mr. LYTLE.

*Prerequisite:* Mathematics 7.

10. THEORY OF EQUATIONS.—A continuation of the theory of equations given in college algebra (Math. 1, 2). It is based on *Burnside and Panton's Theory of Equations, Part I.*, *II.*; *M.*, *W.*, *F.*; 2; (3). Professor TOWNSEND.

*Prerequisite:* Mathematics 2, 4 (or 1, 3), 6.

11. THEORY OF DETERMINANTS.—The general principles and properties of determinants, including determinants of special form and the functional determinants—Jacobians, Hessians, Wronskians. The application of determinants to the theory of equations, analytical geometry including linear transformation. *II.*; *Tu.*, *Th.*; 2; (2). Mr. MILNE.

12. THEORY OF INVARIANTS.—The general development of the theory of invariants, both from the geometric and from the algebraic

side. Applications of invariants to systems of conics and higher plane curves. *I.*; *M., W., F.*; 2; (3). Assistant Professor RIETZ.

*Prerequisite:* Mathematics 8b (or 9), 11.

13a. FUNCTIONS OF REAL VARIABLES.—The two courses in functions (13a, 13b) are a continuation of the work done in calculus (8a, 8b, or 7, 9). Under functions of real variables, considerable attention is given to the fundamental ideas of the analysis, including rational and irrational numbers, *mengellehre*, single and double limits and their application to questions of continuity of functions of one or two variables, uniform, convergence of series, etc. The existence of derivatives, condensation of singularities, definite integrals, differentiation and integration of series are also discussed. *I., II.*; *M., W., F.*; 3; (3). Professor TOWNSEND.

*Prerequisite:* Mathematics 8a, 8b (or, 7, 9), 10.

13b. FUNCTIONS OF A COMPLEX VARIABLE.—A general introduction to the theory of functions of a complex variable. The methods of Weierstrass and Riemann are followed. *I., II.*; *M., W., F.*; 3; (3). Professor TOWNSEND.

*Prerequisite:* Mathematics 8a, 8b (or, 7, 9), 10.

14. METHOD OF LEAST SQUARES.—The fundamental principles of the subject. The following subjects are studied: Law of probability and error, adjustment of observations, precision of observations, independent and conditional observations, etc. *I.*; *Tu., Th.*; 2; (2). Assistant Professor STEBBINS.

*Prerequisite:* Mathematics 8a, or 9.

15. SEMINARY AND THESIS.—*I., II.*; *Tu., Th.*; 3; (3)<sup>1</sup>. Professor TOWNSEND, Assistant Professor RIETZ, Assistant Professor SLOCUM.

16. DIFFERENTIAL EQUATIONS.—For students in the courses of engineering and of mathematics and of astronomy. It embraces the following topics: General linear equations with constant coefficients, special forms of differential equations of higher order, integration in series, etc. *I.*; *M., W., F.*; 11; (3). Professor SHATTUCK.

*Prerequisite:* Mathematics 8a, or 9.

17. SOLID ANALYTICAL GEOMETRY.—A general review of the position of the plane and the right line in space and the more general properties of surfaces of the second degree. The classification and special properties of quadratics, and a brief introduction to the theory of surfaces in general. *II.*; *M., W., F.*; 9; (3). Professor TOWNSEND.

*Prerequisite:* Mathematics 8a (or 7), 11.

18. HIGHER PLANE CURVES.—This course includes the general theory of algebraic curves, together with the application of the theory of invariants to higher plane curves. Special study is made of curves of the third and fourth order. *II.; M., W., F.; 2; (3).* Assistant Professor SLOCUM.

*Prerequisite:* Mathematics 12.

20. CALCULUS OF VARIATIONS.—This course has for its aim merely to acquaint the student with those elements of the science which are most needed in the study of the higher subjects of mathematical astronomy and physics. *II.; M., W., F.; 11; (3).* Professor SHATTUCK.

*Prerequisite:* Mathematics 11, 16.

21. SPHERICAL HARMONICS.—This course is introduced by a short course of lectures and study of certain trigonometric series. Fourier's Theorem for developing any function of a variable in a series proceeding in sines and cosines of multiples of the variable is derived and the limitations of its validity investigated. This is followed by the study of Lagrange's, Laplace's, and Lamé's functions and their applications to astronomical and physical problems. *I.; M., W., F.; 1; (3).* Assistant Professor SLOCUM.

*Prerequisite:* Mathematics 11, 14, 16.

22. POTENTIAL FUNCTION.—The potential function is defined and its properties derived and discussed. The potential of various bodies, such as of wire, a spherical shell, a sphere, ellipsoid of revolution, etc., is computed. Poisson's and Laplace's Equations are derived and discussed. Green's propositions with kindred and similar subjects are considered. *II.; M., W., F.; 1; (3).* Assistant Professor SLOCUM.

*Prerequisite:* Mathematics 21.

23. MODERN GEOMETRY.—This course includes, in general, a consideration of homogeneous coördinates, duality, descriptive and metrical properties of curves, anharmonic ratios, homography, involution, projection, theory of correspondence, etc. *I.; M., W., F.; 2; (3).* Dr. COAR.

*Prerequisite:* Mathematics 8a or 7, 11.

24. ALGEBRAIC SURFACES.—In this course are considered the application of homogeneous coördinates and the theory of invariants to geometry of three dimensions, and also the general theory of surfaces, together with the special properties of surfaces of the third and fourth order. *II.; M., W., F.; 2; (3).* Dr. COAR.

*Prerequisite:* Mathematics 17, 18.

25. PARTIAL DIFFERENTIAL EQUATIONS.—It deals with the integration and determination of the integration constants of such partial differential equations as arise in the study of such subjects as the flow of heat, the vibration of strings, plates, etc., and electricity. *II.; Tu., Th.; 2; (2).* Professor TOWNSEND.

*Prerequisite:* Mathematics 8a or 9, 16.

26. STATISTICAL ADJUSTMENTS.—A course in statistics, theoretical and applied. For the convenience of students, it is given in two parts, of which the first may be taken alone or in connection with the second. The two parts, when taken with zoölogy 12, or economics 23, may be counted as a five-hour course in mathematics.

(a) Theory of Statistical Adjustments.—The general method of statistical investigation, the use and abuse of the arithmetical and the geometrical average, application of averages to tabulation, graphic method of deducing the law of error, interpolation, and the application of the theory of probability to statistics. *II.; M., W., Th., F.; first 9 weeks; 9; (2).* Assistant Professor RIETZ.

*Prerequisite:* Mathematics 8a.

(b) Applications.—Applications of the principles developed in (a) to specific problems in economics, biological sciences, etc. *II.; M., W., Th., F.; last 9 weeks; 9; (2).* Assistant Professor RIETZ.

*Prerequisite:* Mathematics 8a, 26a.

### COURSES FOR GRADUATES

Courses 12, 13, 14, 15, 18, 20, 21, 22, 23, 24, 25 and 26 may be counted as graduate work for those students making a major in mathematics.

### MECHANICAL TECHNOLOGY

See General Engineering Drawing 1b, Civil Eng'g 24, Mech. Eng'g 1, 30, 31, and Ry. Eng'g 9.

### MECHANICAL ENGINEERING

I. SHOP PRACTICE.—The course in shop practice consists of a suitably graded series of exercises, some of which are chosen from parts of machines under construction in the shops. The following is an outline of the work:

(a) Wood Shop and Foundry, 30 weeks.—Care and use of tools; exercises in the construction of joints; turning pattern and corebox making; management of the cupola; molding, including the making of dry and green sand cores.

(b) Forge Shop, 6 weeks.—Forging, welding iron and steel; tempering lathe and planer tools; annealing and case hardening.

The students are required to make inspection trips to commercial shops in the vicinity and take notes on methods and processes. *I., II.; alternates with G, E, D, 4 sections; 8, 9, 10, 1, 2, 3; (3)*. Assistant Professor PERRY, Mr. ELLIS, Mr. LANHAM, Mr. WATSON, Mr. PIPPIT, Mr. JERNBERG.

2. MACHINE SHOP PRACTICE.—Regular lectures are given on the use of tools and on machine shop processes. The character of the work done is indicated in the following outline:

First Semester.—Exercises in chipping and filing; elementary work on lathe, drill presses and shaper.

Second Semester.—Fitting and bench work; advanced work on lathe, planer, shaper, milling machine, grinding machine, screw machine, gear cutter, and boring mill.

Visits of inspection are made to shops in the adjoining cities.

*I., II.; daily; 8, 9, 10, 1, 2, 3 (divides time with M. E. 4); (2½)*. Assistant Professor PERRY, Mr. SCROGGIN, Mr. GABEN.

3. POWER MEASUREMENT.—This course includes a study of the apparatus used in engine and boiler tests—scales, thermometers, indicators, brakes and dynamometers, gauges, calorimeters, etc. The methods of calibrating and using such apparatus are taught. Tests for indicating horse-power are made on steam engines, pumps, and gas engine. Students are required to make reports on all experiments undertaken. *II.; section A1, Th., 1, 2, 3; S., 8, 9, 10; section A2, S.; 9, 10, 11; M., 1, 2, 3; section B1, M., 8, 9, 10; Tu. 1, 2, 3; section B2, M., Tu., 1, 2, 3; (2)*. Assistant Professor RANDALL, Mr. HARMAN, Mr. GARLAND, Mr. GODEKE.

*Prerequisite:* Mechanical Engineering 1, 2; Math. 9.

4. ELEMENTS OF MACHINE DESIGN.—The aim of this course is to familiarize the student with machine elements, such as bolts, keys, journals, bearings, couplings, gears, etc. Problems are given requiring simple calculations for strength. Considerable attention is paid to forms of gear teeth and to spur and bevel gears.

Outline of the Subject.—Fastenings; riveted joints and boiler stays; journals, pivots, shafts; bearings; forms of gear teeth; spur gears; bevel gears; cams, stepped cones for open belts; point paths. *Kent's Mechanical Engineer's Pocket-book; also Unwin's Machine Design. I., II.; daily; 8, 9, 10, 1, 2, 3 (divide time with M. E. 2); (2½)*. Mr. HARMAN, Mr. DUNKIN.

*Prerequisite:* General Engineering Drawing 1.

5. MECHANISM (Kinematics of Machinery).—The methods of Reuleaux are followed. The following is an outline of the work done: Analysis of mechanisms with tests for constraint; study of plane motion by the method of virtual centers; velocity diagrams for steam-engine and quick-return mechanisms; application of kinematic principles to gear trains, cam trains, ball and roller bearings. *Durley's Kinematics of Machines. I.; section A, Tu., Th., 8; IV., 1, 2, 3, 4; section B, Tu., Th., 10; W., 1; S., 9, 10, 11; (3).* Assistant Professor GOODENOUGH, and Mr. MATTHEWS.

*Prerequisite:* Physics 1 and 3.

6. HEAT ENGINES.—The principles of thermodynamics are applied to the study of the modern heat engines. Special attention is given to steam turbines and gas engines. *II.; section A, Tu., Th., 8; section B, Tu., Th., 1; (2).* Assistant Professor GOODENOUGH.

*Prerequisite:* Mechanical Engineering 7.

7. THERMODYNAMICS.—This course includes the fundamental laws underlying the transformation of heat into work, the properties of perfect, saturated and superheated vapors, including ammonia, and the application of thermodynamic principles to refrigeration, air compression, flow of fluids, the injector, etc. The solution of a large number of problems is required. *I.; section A, M., W., F., 8; section B, M., W., F., 11; (3).* Assistant Professor GOODENOUGH.

*Prerequisite:* Theoretical and Applied Mechanics 7, 8, 9, 10.

8. MECHANICS OF MACHINERY.—The principles of theoretical mechanics are applied to various classes of machinery. The work is varied from year to year, but includes some of the following topics: Hoisting machinery; air compressors; fans and blowers; pumping machinery; hydraulic machinery; the locomotive; friction in machine parts; governors; balancing of engines. *I.; section A, Tu., Th., 8; section B, Tu., Th., 10. II.; section A, M., W., F., 8; section B, M., W., F., 1.* Assistant Professor LEUTWILER.

*Prerequisite:* Theoretical and Applied Mechanics 1, 7, 8, 9, 10; Mechanical Engineering 5, 7.

9. ADVANCED MACHINE DESIGN.—In this course three lines of work are undertaken:

(a) DESIGN OF MACHINE TOOLS, such as lathes, shapers, slotters and milling machines. The design of attachments to existing machines or the complete design of some machine that can be built in the shops is often a part of this work.

(b) ORIGINAL DESIGN.—This includes the design of automatic machines, requiring a considerable invention on the part of the

student. Often a single piece is handed to the student and a machine is required that will produce a given number of these pieces per hour.

(c) **ADVANCED DESIGN.**—The design of machinery subjected to heavy and variable stresses, such as punches, shears, presses, riveters, cranes, derricks, heavy pumps and motors.

Study of existing machines is required. The student is taught to consult standard works on machine design, such as *Unwin*, *Reuleaux*, and *Bach's Maschinenelemente*. I.; section A, M., W., F., 9, 10, 11, 2, 3; section B, M., W., F., 8, 9, 10; (3). II., M., W., F., 9, 10, 11; (3). Assistant Professor LEUTWILER.

*Prerequisite:* Theoretical and Applied Mechanics 7, 8, 9, 10; Mechanical Engineering 1 to 8.

10. **ESTIMATES, SPECIFICATIONS, AND SUPERINTENDENCE.**—Calculations and estimates as to the cost of machinery, power plants, boilers, chimneys, systems of piping, engines and their foundations, different methods of power transmission. Forms of contracts and specifications are studied. II.; Tu., 9, 10; (1). Professor BRECKENRIDGE.

*Prerequisite:* Theoretical and Applied Mechanics 7, 8, 9, 10.

11. **STEAM ENGINES AND BOILERS.**—For students in other departments of the College of Engineering. The course includes the construction, operation, and care of boilers and engines; elementary thermodynamics; the indicator and indicator diagrams; compounding, jacketing, and superheating; condensers; steam engine performance. II.; section G, Tu., W., F., 11; section H, M., Tu., Th., 10; sections E and I M., W., F., 9; section C, Tu., Th., F., 8; section D, M., W., 8; Th., 9; (3). Mr. MATTHEWS.

12. **MECHANICAL ENGINEERING LABORATORY.**—This course includes experiments on engines, pumps, boilers, injectors, air compressors, hoisting appliances, etc.; also experiments with the transmission dynamometer on the power required by shop machinery. Tests of power plants in the vicinity are made. By special arrangement with the management of the Peoria and Eastern Railroad, the Urbana shops and power plant are made available for experimental work. The railway test car affords opportunity for tests in the line of railway engineering. In some cases groups of students are assigned advanced constructive work in the shops to impress upon them the intimate relation existing between the shop and designing room. *Carpenter's Experimental Engineering*. I.; section A, Th.,

*F.*, 1, 2, 3; *S.*, 8, 9, 10; *section B, M., W.*, 1, 2, 3; *S.*, 8, 9, 10; (3). *II.*; *section A, F.*, 1, 2, 3; *section B, Tu.*, 2, 3, 4; (1). Professor BRECKENRIDGE, Assistant Professor RANDALL, Mr. HARMAN, Mr. GARLAND.

*Prerequisite*: Theoretical and Applied Mechanics 7, 8, 9, 10; Mechanical Engineering 1 to 7.

13. MECHANICAL ENGINEERING LABORATORY.—This is a laboratory course for students in other departments of the College of Engineering. It includes the testing and calibration of instruments and apparatus, use of the indicator, calculation of horse-power and steam consumption, reading of indicator diagrams, and valve setting. *I.*; *section F1, M.*, 1, 2, 3; *section F2, W.*, 9, 10, 11. *II.*; *section G1, W.*, 9, 10, 11, 1, 2, 3; *section G2, M., W.*, 9, 10, 11; (2). Assistant Professor RANDALL, Mr. GARLAND, and Mr. GODEKE.

18. GRAPHIC STATICS OF MECHANISM. — This course is divided into two parts. The first part includes the general principles of graphic statics and the analysis of stresses in cranes and simple trusses. The second part deals with the graphical analysis of machines, taking account of sliding, journal and pivot friction, chain friction, rope stiffness, etc. *Hoskin's Graphic Statics. I.*; *section A, M., Th.*, 1, 2, 3; *section B; Tu., F.*, 1, 2, 3; (2). Mr. MATTHEWS.

*Prerequisite*: Theoretical and Applied Mechanics 7, 8.

19. SEMINARY.—The work of this course supplements the other studies of the senior year. Papers on subjects relating to current engineering practice are read and discussed. Each student subscribes for a technical journal. The indexing of current engineering literature is a part of the work of this course. *I.*; *Tu. 1, 2; II.*; *Th., 10, 11; (1)*. Professor BRECKENRIDGE.

20. SHOP PRACTICE FOR SPECIAL STUDENTS.—This course is open to those entering as special students, as defined elsewhere under "Admission." The work done does not count for a credit for graduation in any of the technical courses. *Arrange time*. Mr. SCROGGIN.

21. FORGE SHOP PRACTICE.—This course is designed for students taking the course in Agriculture. Instruction is given in forging, such as will be of use to the practical farmer. The course may be started at the beginning or middle of either semester. *Arrange time at 8, 9, 10, or 1, 2, 3; six hours a week; (2)*. Mr. LANHAM and Mr. JERNBERG.

22. WOOD SHOP PRACTICE.—This course is intended for students taking the course in Agriculture. Students should arrange

with the instructor for nine hours' work each week. *I. or II.*; 8, 9, 10, or 1, 2, 3; (3). Mr. ELLIS.

23. STEAM ENGINEERING.—The following topics are included in the course: General description of boilers, engines, condensers, pumps, and other steam machinery, thermodynamics of gases and steam; compounding, superheating, jacketing, etc.; mechanics of the steam engine; valve gears. *Spanglers' Steam Engineering and Ripper's Steam Engine Theory. II.*; Sections A, M., W., 8; F., 11; Tu., 1, 2, 3; section B, Tu., Th., F., 9; Th., 1, 2, 3. (4). Assistant Professor RANDALL.

*Prerequisite:* Theoretical and Applied Mechanics 7, 8.

25. GRAPHIC KINETICS.—This course includes the following: Study of the velocity states of mechanisms by the method of velocity images and polygons. Acceleration constructions: Coriolis' law and its applications. Kinetics of the steam engine. Balancing of rotating and reciprocating masses. Force and mass reductions. *II.*; W., 10; W., F., 1, 2, 3. Assistant Professor GOODENOUGH.

*Prerequisite:* Mechanical Engineering 5.

26. ADVANCED SHOP PRACTICE.—An elective course for juniors or seniors who desire to take up advanced work in any of the shops. The work may include the construction of commercial machinery, the construction of apparatus or machines originally designed by the student, or a study of modern shop processes, especially those relating to the production of interchangeable parts by means of jigs and templates. The work may be begun in either semester. Time and credits will be arranged. Assistant Professor PERRY and Mr. SCROGGIN.

*Prerequisite:* Mechanical Engineering 1, 2.

27. ADVANCED LABORATORY PRACTICE.—This course provides senior students an opportunity to take up special research work in the mechanical engineering laboratory. The character of the work will depend upon circumstances. Time and credits will be arranged by consultation. Professor BRECKENRIDGE and Assistant Professor RANDALL.

*Prerequisite:* Mechanical Engineering 3, 12.

29. SEMINARY FOR JUNIORS.—The work of this course requires a study of technical publications and the presentation of abstracts of important articles on engineering topics. It will include also a study of the various technical indexes, methods of classifications, and

filing systems for clippings, catalogs, and drawings. *I.*; *F.*, *11*; *11.*; *F.*, *10*; (*1*). Professor BRECKENRIDGE.

*Prerequisite:* Rhetoric 2.

30. MACHINERY AND MANUFACTURING.—Construction, operation and erection of “form changing machines.” A study of machinery that transforms raw material into a finished product. Manufacture vs. building; hand labor vs. automatic machinery; the American system of interchangeable machine parts. *11.*; *M.*, *W.*, *F.*; *11*; (*3*). Assistant Professor PERRY.

31. GENERATION AND TRANSMISSION OF POWER.—Elementary principles of generation and transmission of power. Applications of power for purposes of agriculture, manufacturing, mining, and transportation on land and water. *11.*; *M.*, *W.*, *F.*; (*3*). Professor BRECKENRIDGE.

33. THESIS.—Each senior student is required to take up some special subject of investigation and prepare a thesis embodying a review of the literature of the subject, the results of his investigation and a discussion of those results. During the second semester weekly reports are required. A credit of three semester hours is given, but the work may require for its completion more time than a three-semester hour subject. *11.*; (*3*). Professor BRECKENRIDGE, Assistant Professors GOODENOUGH, LEUTWILER, RANDALL, and PERRY.

## COURSES FOR GRADUATES

### Primary

- 101. Advanced Machine Design.
- 102. Graphics and Kinematics.
- 103. Mill Engineering.
- 104. Steam Engineering.
- 105. Experimental Engineering.
- 106. Thermodynamics.
- 107. Pneumatics.
- 108. Hydraulic Machinery.
- 109. Mechanical Technology.
- 110. Translation of Technical Engineering Work.
- 111. Heat Engines and Gas Engineering.
- 112. Locomotive Engineering.
- 113. Mechanical Refrigeration.

## Secondary

120. Any primary offered in the College of Engineering.

Primary subjects may be taken as secondary in any course for the master's degree in the College of Engineering.

121. Indexing and Classification of Engineering Literature.

## MECHANICS, THEORETICAL AND APPLIED

4. APPLIED MECHANICS.—To be taken instead of Analytical Mechanics. The course of study and topics studied will be nearly identical. *Wright's Mechanics*. I.; M., Tu., W., Th.; 8; (4). Mr. CLARK.

*Prerequisite*: Mathematics 6.

5. STRENGTH OF MATERIALS.—To be taken instead of Resistance of Materials. The course of study will be nearly the same, though somewhat simplified. *Merriman's Mechanics of Materials*. II.; M., Tu., W., Th.; 10; laboratory, weekly; Section A, M.; 2, 3; section B, W.; 7, 8; (4). Mr. CLARK, Mr. CRONIN.

*Prerequisite*: Mathematics 6; Theoretical and Applied Mechanics 4.

6. ENGINEERING MATERIALS.—This course embraces weekly lectures on the properties and requirements for materials used in engineering construction, the effect of methods of manufacture upon the quality of the material and the specifications and standard tests used to secure acceptable grades of material. I.; Wed.; 11; (1). Professor TALBOT.

*Prerequisite*: Registration in Thero. and App. Mechanics 9.

7, 8. ANALYTICAL MECHANICS.—The mechanics of engineering rather than that of astronomy and physics, is here considered. Attention is given to fixing the fundamental concepts and demonstrating the general principles of equilibrium and motion and also to the application of principles and methods to numerous and varied engineering problems. Training in the statement of conditions and in the use of data is given. This subject requires a thorough working knowledge of the mathematics preceding it in the course. The work begins in the second semester, and in the following semester it is given in connection with Theoretical and Applied Mechanics 9. *Maurer's Technical Mechanics*, II.; section A, M.; 9; Tu., Th.; 8; section B, M.; 9; Tu., Th.; 8; section C, M., W.; 10; Th.; 9; sections D and E, Tu.; 11; W., F.; 1; section F, Tu., Th.; 1; F.; 3; sections G, H, and K, Tu.; 10; Th., F.; 11; sections I and J, M., W.;

8; F.; 10; (3). I.; programme includes both Theoretical and Applied Mechanics 8 and 9; section A, daily; 10; section B, daily; 9; section C, Tu., W., Th.; 1; F.; 9; section D, Tu., W., Th.; 1; F.; 10, 1; section E, daily; 8; section F, daily; 8; section G, daily; 9; section H, daily; 10; section I, daily; 8; ( $2\frac{1}{2}$ ). Professor TALBOT, Mr. MOORE, Mr. PIERCE, Mr. LAMOTTE.

*Prerequisite:* For 7, Mathematics 7; registration in Mathematics 9; for 8, mathematics 9; Theoretical and Applied Mechanics 7.

9. RESISTANCE OF MATERIALS.—In the treatment of this subject it is the aim to give the student a thorough training in the elementary principles of the mechanics of materials, to follow with such experiments and investigations in the materials laboratory as tend to verify the experimental laws, and to add such problems in ordinary engineering practice as will train the student in the use of his knowledge. Attention is also given to the quality and requirements for structural materials. *Merriman's Mechanics of Materials. I.; Recitation program the same as Theoretical and Applied Mechanics 8; Laboratory, weekly; section A1, M.; 8, 9; section A2, W.; 8, 9; section B1, M.; 10, 11; section B2, M.; 6, 7; section B3, W.; 2, 3; section C1, F.; 10; 11; section C2, S.; 8, 9; section D1, Th.; 8, 9; section D2, F.; 8, 9; section E1, M.; 1; section E2, Th.; 1, 2; section F1, M.; 10, 11; section F2, S.; 10, 11; section G1, F.; 1, 2; section G2, Tu.; 10, 11; section G3, Th.; 3, 4; section H1, Tu.; 8, 9; section H2, Tu.; 1, 2; ( $3\frac{1}{2}$ ).* Professor HURD, Mr. MOORE, Mr. PIERCE, Mr. CRONIN, Mr. LAMOTTE.

*Prerequisite:* Mathematics 9; Theoretical and Applied Mechanics 7; Registration in Theoretical and Applied Mechanics 8.

10. HYDRAULICS.—In hydraulics the instruction is by text-book and laboratory work. The laws of the pressure and the flow of water and its utilization as motive power are considered. Experimental work in the hydraulic laboratory gives training in the observation and measurement of pressure, velocity, and flow, in power and efficiency, and in the determination of experimental coefficients. *Merriman's Hydraulics. II.; Recitations; section A, M., W.; 9; section B, M., Th.; 11; section C, M., W.; 8; section D, Tu., Th.; 8; section E, Tu., Th.; 9; section F, Tu., F.; 1; section G, Tu., F.; 10; section H, W.; 11; F.; 9; section I, W.; 10; F.; 8; Laboratory weekly; section A1, Tu.; 10, 11; section A2, F.; 8, 9; section A3, W.; 10, 11; section B1, S.; 8, 9; section B2, W.; 8, 9; section B3, M.; 8, 9; section C1, Tu.; 1, 2; section C2, W.; 1, 2; sec-*

tion D1, M.; 1, 2; section D2, F.; 1, 2; section D3, S.; 10, 11; section E1, M.; 1, 2; section E2, Th.; 1, 2; section F1, S.; 10, 11; section G1, M.; 10, 11; section G2, Th.; 10, 11; section H1, Tu.; 8, 9; section H2, F.; 10, 11; (3). Professor HURD, Mr. MOORE, Mr. CRONIN.

*Prerequisite:* Mathematics 9; Theoretical and Applied Mechanics 9.

### COURSES FOR GRADUATES

- 101. Analytical Mechanics.
- 102. Resistance of Materials.
- 103. Hydraulics and Hydraulic Engineering.
- 104. Laboratory of Applied Mechanics.

### METEOROLOGY

See under Physical Geography and Geology 14.

### MILITARY SCIENCE

<sup>1</sup>1. THEORETICAL INSTRUCTION.—Infantry drill regulations. For all male students. II.; M., Tu., Th., F.; 11, 3; (1). Mr. HENDERSON, Mr. KANNE, Mr. PEPPER.

<sup>1</sup>2. PRACTICAL INSTRUCTION.—Infantry.—School of the soldier; company and battalion; regimental ceremonies. Artillery.—School of the cannoneer and battery dismounted. Freshman and sophomore years. I., II.; M., Tu., Th., F.; 4; (1). Professor FECHET.

<sup>1</sup>3. THEORETICAL INSTRUCTION.—*Sophomores*. Drill regulations and military administration. I., II.; Tu., 10, 11, 3; Th.; 10, 11; (1). Juniors, Elements of military science. I.; M.; 11. II.; M.; 2; (1). Seniors.—Field engineering. I., II.; S.; 11; (1). This course is obligatory upon commissioned officers and sergeants, optional with corporals, and open to others. Professor FECHET.

Authorized text-books.—*United States Drill Regulations; United States Army Regulations; Manual of Field Engineering (Beach); Elements of Military Science (Wagner)*.

### MINERALOGY

See under Geology 5, 6, 7, 10.

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<sup>1</sup>Freshmen and sophomores are required to drill two hours each week during the year. Freshmen attend recitations one hour per week in second semester. Assignments to classes and companies are made by the Commandant of Cadets according to circumstances.

## MUNICIPAL AND SANITARY ENGINEERING

2. WATER SUPPLY ENGINEERING.—This subject is intended to cover the principal features of the construction of water works, including the tests and standards of purity of potable water; the choice of source of supply; the designing of the distribution system, pumps and pumping machinery, reservoirs, and stand pipes. *Lectures; Turneaure's Public Water Supplies. I.; section A, M., W.; F.; 9; Th.; 1, 2, 3; section B, M., W., F.; 10; Tu.; 9, 10, 11; section C, M., W., F.; 8; Th.; 8, 9, 10; (4).* Professor TALBOT and Mr. SLOCUM.

*Prerequisite:* Theoretical and Applied Mechanics 9, 10; Chemistry 1; Mechanical Engineering 11.

3. SEWERAGE.—The design and methods of construction of sewerage systems of cities, including the following: Sanitary necessity of sewerage; water carriage systems, both separate and combined; surveys and general plans; hydraulics of sewers; relation of rainfall to storm water flow, and determination of size and capacity of sewers; house sewage and its removal; form, size, design, and construction of sewers and sewer appurtenances; modern methods of sewage disposal; estimates and specifications. *Lectures; Folwell's Sewerage; II.; section A, Tu., Th.; 8; M.; 1, 2; section B, Tu., Th.; 10; Th.; 1, 2, 3; section C, Tu., Th.; 9; F.; 9, 10, 11; (3).* Professor TALBOT and Mr. SLOCUM.

*Prerequisite:* Theoretical and Applied Mechanics 9, 10; Chemistry 1.

5a. BACTERIOLOGY. — For students in Municipal Engineering This course includes the identification and classification of bacteria, and of allied organisms, their relations to health and to disease, the methods of separation and cultivation, and the methods of air and water analysis. The laboratory is furnished with sterilizers, culture ovens, microscopes, etc., and students have abundant opportunity to do practical work. This course follows Civil Engineering 4a. *I.; last 7 weeks; daily; 9, 10; (2).* Professor BURRILL.

6a, b. WATER PURIFICATION, SEWAGE DISPOSAL, AND GENERAL SANITATION.—This work includes the consideration of impurities in water supplies and the study of the methods and processes of their removal; the modern methods of sewage disposal by filtration, chemical precipitation, irrigation, etc., with a study of representative purification plants; garbage collection and disposal; sanitary restrictions and regulations and general sanitation. Lectures, sem-

inary work and drafting. 6a, I.; Th.; 11; Tu.; 1, 2, 3; (9); 6b, 11.; M., W.; 9, 10, 11; F.; 11; (3). Professor TALBOT and Mr. SLOCUM.

*Prerequisite:* Municipal and Sanitary Engineering 2, 3, 5a; Chemistry 1, 3b, 10b.

### COURSES FOR GRADUATES

#### Water Supply Engineering

- 101. Tanks, Stand-Pipes, and Reservoirs.
- 102. Sources and Requirements of Water Supply for a City and Removal of Impurities.
- 103. Water Works Management and Economics.
- 104. Pumps and Pumping.
- 105. General Water Works Construction.
- 106. Biological and Chemical Examination of Potable Water.
- 107. Description of Water Supply Systems.

#### Sewerage

- 111. Sewage Purification.
- 112. Sewage Disposal Works.
- 113. General Sewerage Design and Construction.
- 114. City Sanitation.
- 115. Description of Sewerage Systems.

#### Road Engineering

- 118. Economic Aspect of Good Roads and Pavements.
- 119. Construction of Roads and Pavements.

#### Miscellaneous Subjects

- 121. Critical Description of Engineering Construction.
- 122. Translation of Technical Engineering Work from French or German.
- 123. Any Primary in Civil Engineering.
- 124. Any Primary in Theoretical and Applied Mechanics.
- 125. Any Primary in Mathematics, Mechanical Engineering or Electrical Engineering—Secondary.
- 126. Indexing of Municipal and Sanitary Engineering Literature in Engineering Periodicals.

### MUSIC

- I. HISTORY OF MUSIC.—Lectures on the development of Music, referring especially to the rise of Polyphony and dramatic music,

the origin and progress of the Oratorio, the evolution of instruments and instrumental forms, and studies in the lives of composers. Assigned collateral readings. *I., II.; (2).* Mr. SCHWARTZ.

2. THEORY OF MUSIC.—Elementary Theory and Ear-training. Four Part Harmony, and Analysis. *I., II.; (2).* Mr. SCHWARTZ and Miss FORBES.

3. ADVANCED HARMONY AND ANALYSIS.—*I., II.; (3).* Mr. SCHWARTZ.

4. COUNTERPOINT, CANON, AND FUGUE.—*I., II.; (3).* Mr. SCHWARTZ.

5. GENERAL THEORY, FREE COMPOSITION.—*I., II.; (2½).* Mr. SCHWARTZ.

NOTE.—Music, 5, I. may be taken with course 4, II. if desired.

6. COURSE FOR THE PIANO.—*Preparatory.* This course covers three years' work and is required in fulfillment of the two units prescribed for entrance to the School of Music. The work of each year counts two-thirds of a unit for entrance. It includes formation and position of fingers, hands, wrists, and arms, properties of touch, principles of technique, thorough drill in scale and arpeggio playing, and exercises in accent, rhythm, and expression. Music used:

(a) First year. National Graded Course. *Bk. I. or equivalent; Köhler Op. 151.* Miss MANN and Miss NORRIS.

(b) Second year. Music used,—Köhler Op. 50; Leoschorn Op. 65, Bk. 3; Duvernoy Op. 120; Kunz Canons (preparatory to Bach); Czerny Op. 636; Sonatines of Lichner, Berens, Kulau, Clementi, Diabelli, etc. Pieces of same grade. Miss MANN and Miss NORRIS.

(c) Third Year.—Gorno Pedal Studies; Czerny Op. 299, Bks. 1 and 2; Wolff Octave Studies; Lawrence, Bach Preparatory Studies; Berens School of Velocity; Heller Studies, selected; Easier sonatas of Haydn, Mozart, etc. Miss MANN and Miss NORRIS.

7. *Collegiate.* First Year. Studies in development of technique; Czerny, Op. 299 Bks. 3, 4; Czerny Octave Studies; Cramer Etudes; Jensen, Etudes; Bach, Little Preludes and Fugues; sonatas of Haydn and Mozart; easier sonatas of Beethoven; Songs without Words, Mendelssohn; compositions (smaller works of Schubert, Raff, Grieg, Chaminade, Moszkowski, and others). *I., II.; (6).* Professor LAWRENCE and Mr. VAN DEN BERG.

8. Second Year. Daily technique: Czerny, Op. 740; Mayer's Octave Studies; Pacher, Octave Studies; Bach, Two and Three-

Voice Inventions, and French Suites; Sonatas and other compositions of Scarlatti, Beethoven, Schubert, Schumann, Mendelsohn, Weber, Raff, Rubinstein, Saint Saens, Godard, MacDowell, and others. *I., II.; (6)*. Professor LAWRENCE and Mr. VAN DEN BERG.

9. Third Year. Selections: Clementi, *Gradus ad Parnassum*; Moscheles, Op. 70; Kullak, *Seven-Octave Studies*, Bk. 2; Bach, *English Suites* and *Well-Tempered Clavichord*; Sonatas and concertos by Mendelssohn, Weber, Beethoven, Hummel, etc.; selections from works of Bach, Chopin, Schubert, Schumann, Brassin, Rubinstein, Liszt, Moszkowski, Scharwenka, and other modern composers. *I., II.; (8)*. Professor LAWRENCE and Mr. VAN DEN BERG.

10. Fourth Year. Selections: *Octave Studies*; Clementi, *Gradus*, continued; Bach, *Well-Tempered Clavichord*, continued; Chopin, *Etudes*; Henselt, *Etudes*; Rubinstein, *Etudes*; Sonatas by Beethoven, and concertos and other compositions by the great masters, classic and romantic, both of the older and the more modern schools. *I., II.; (9)*. Professor LAWRENCE and Mr. VAN DEN BERG.

11. COURSE FOR THE VOICE.—Preparatory. Covers three years' work and is required in fulfillment of the two units prescribed for entrance to the School of Music.

(a) First Year. Exercises for correct breathing and for proper placing of the voice. Randegger's *Singing* and Sieber's 36 eight measure Vocalises will be used. Miss GREENE.

(b) Second Year. Breathing exercises. Tone production. Randegger's *Singing*. Sieber's 36 eight measure Vocalises, 25 studies from Concone's 50 lessons; simple songs for rhythm, accent, and enunciation. Miss GREENE.

(c) Third Year. Breathing exercises. Tone production. Randegger's *Singing*. Concone's 50 lessons completed. Panofka's Op. 85. Songs from Mendelssohn and modern composers. Miss GREENE.

12. COLLEGIATE. First Year. Tone production. Randegger's *Singing* continued. 25 and 40 Concone Studies. Sieber's *School of Velocity*. Songs from Schubert, Franz and modern composers. *I., II.; (6)*. Assistant Professor BRENEMAN, Mrs. BRENEMAN and Miss GREENE.

13. Second Year. Tone production. Sieber's *School of Velocity* continued. Panofka's studies Op. 81. Songs of German, French and English composers. Simple selections from operas and oratorios. *I., II.; (6)*. Assistant Professor BRENEMAN and Mrs. BRENEMAN.

14. Third Year. Tone production. Sieber's School of Velocity continued. Bordogni's studies for soprano or tenor. Sieber or Bordese for alto or bass. Selections from oratorios and from French, German, and Italian composers. *I., II.; (8).* Assistant Professor BRENEMAN and Mrs. BRENEMAN.

15. Fourth Year. Tone production. Lutgen's opera-vocalisen, Etk. 2. Italian, French, and English songs of standard composers. Solos and concerted works from modern and standard operas and oratorios. *I., II.; (9).* Assistant Professor BRENEMAN and Mrs. BRENEMAN.

16. COURSE FOR VIOLIN.—*Preparatory.* Sitt: Op. 31, No. 1. Schradieck's Scale and Arpeggio Studies commenced; Meerts Elementary Etudes; Sitt: Double Stops, in part. Pieces by Weiss, Sitt, Reinecke, and Pleyel. Mr. SCHWARTZ and Miss FORBES.

17. *Collegiate.* First Year. Scales and Arpeggios in three Octaves; Sitt, Double Stops, completed. Kreutzer, David Violin School, Vol II.; Sonatas by Handel and Schubert. Compositions by Dancla, Hauser, and Bohm. *I., II.; (6).* Mr. SCHWARTZ and Miss FORBES.

18. Second Year. Scales in octaves and thirds, arpeggios on dominant and diminished seventh chords; David School completed. Fiorillo Etudes, Mozart Sonatas, Concertos by Viotti, Spohr, and others; Concert pieces by Sitt, Spohr, Alard, and others. *I., II.; (6).* Mr. SCHWARTZ and Miss FORBES.

19. Third Year. Special technical drill. Meerts Etudes, Rode Caprices, Easier Modern Concertos and Sonatas; Concert pieces by Vieuxtemps, Sarasate, Foote, Cui. *I., II.; (8).* Mr. SCHWARTZ and Miss FORBES.

20. Fourth Year. Selected Concert Etudes, Sonatas by Beethoven, Schumann, and Brahms; Various Modern and Classic Concertos. *I., II.; (9).* Mr. SCHWARTZ and Miss FORBES.

NOTE.—Ensemble and orchestral work is required of all special students who are sufficiently advanced.

21. UNIVERSITY ORCHESTRA.—Two hours rehearsal once a week throughout the year. *I., II.; (1).* Professor LAWRENCE.

22. UNIVERSITY CHORAL SOCIETY.—One hour rehearsal once a week throughout the year. *I., II.; (1½).* Professor LAWRENCE.

23. EAR-TRAINING CLASSES are provided for all School of Music students. *I., II.;* Mrs. SMITH.

24. SIGHT-SINGING CLASSES are open to all University students. *I., II.*; Mrs. SMITH.

25. PUBLIC SCHOOL METHODS.—Students are required to complete courses in Music 1, 2, 11, and must pursue work as follows: Two classes per week in sight-singing, methods of teaching, and conducting. The methods taught are the so-called "Modern," "Educational," "Natural," "Normal," "Model." A teacher's certificate is granted to all who successfully complete the course. *I., II.* Mrs. SMITH.

26. COURSE FOR BAND INSTRUMENTS.—Students are prepared for band, orchestra, or solo work. *I., II.* Mr. HARDING.

27. ENSEMBLE CLASSES.—Open to all University students who are sufficiently advanced. String and piano trios and quartets as well as the larger ensemble works are studied. *I., II.* Mr. SCHWARTZ.

## PALEONTOLOGY

See under Geology 1, 9.

## PHILOSOPHY

1. LOGIC.—The study of terms and propositions from the standpoint of their meaning. Practice in syllogistic reasoning. The last half of the course is devoted to the study of scientific method. *I.; M., W., F.; 3; (3).* Professor DANIELS.

*Prerequisite:* One year of University work.

2. OUTLINES OF PHILOSOPHY.—A general introduction to the study of philosophy. *I.; M., W., F.; 8; (3).* Professor DANIELS.

*Prerequisite:* Two years of University work.

3. ANCIENT AND MEDIEVAL PHILOSOPHY.—A rapid survey of the development of speculative thought, beginning with the early Greek philosophers and continuing through the mediæval period. *I.; Tu., Th.; 3; (2).* Professor DANIELS.

*Prerequisite:* Two years of University work.

4. MODERN PHILOSOPHY.—The formation and development of the problems and conceptions in philosophy from Descartes to the present time. Selections from the philosophical masterpieces of this period. Special emphasis is laid upon the philosophy of Kant. *II.; M., W., F.; 8; (3).* Professor DANIELS.

*Prerequisite:* Two years of University work.

5. **POLITICAL PHILOSOPHY.**—Political theories in modern philosophy beginning with Hobbes. The nature of the state, natural law and natural right. *II.*; *Tu., Th.*; 8; (2). Professor DANIELS.

*Prerequisite:* Two years of University work. [Not given in 1906-1907.]

7. **HISTORY OF ETHICS.**—The elements of ethics theoretical and applied. A survey of various types of ethical theory. *II.*; *M., W., F.*; 3; (3). Professor DANIELS.

*Prerequisite:* Two years of University work.

8. **ESTHETICS.**—A brief history and a critical study of the various theories of the beautiful. Lectures and assigned readings. Open to senior and graduate students only. *II.*; *Tu., Th.*; 3; (2). Professor DANIELS.

*Prerequisite:* Psychology 1 or 2, or an elementary course in Philosophy.

9. **POLITICAL ETHICS, HISTORICAL AND APPLIED.**—A discussion of rights and duties in relation to social institutions; international rights and duties; the ethics of diplomacy. *I.*; *Tu., Th.*; 8; (2). Professor DANIELS.

*Prerequisite:* Two years of University work.

11. **PHILOSOPHY OF RELIGION.**—The philosophical interpretation of religious consciousness, with reference to the value of a rational view of religious ideas. Open to senior and graduate students only. *I., II.*; *Tu.*; 2; (1). Professor DANIELS.

13. **PHILOSOPHY OF NATURE.**—The relation of philosophy to scientific conceptions. Man's place in nature. The relation of mind and body. The views of Clifford, Pearson, Ostwald, and other modern writers. Open to senior and graduate students only. *II.*; *Tu., Th.*; 3; (2). Professor DANIELS.

#### COURSES FOR GRADUATES.

101. THE PHILOSOPHY OF KANT.

102. THE SEVENTEENTH CENTURY PHILOSOPHY.

#### PHYSICAL GEOGRAPHY.

**PHYSICAL GEOGRAPHY (Geology 8).**—The first part of the semester is devoted to a discussion of the general principles of meteorology, oceanography, and climatology. This is followed by a study of the physical geography of North America and Europe, with reference to the objects named above.

It is assumed that the student has a good understanding of political geography, and of the principles of land development, etc., as set forth in such works as *Davis's, Gilbert and Brigham's, or Tarr's Physical Geography. I., II., M., W., F.; 1 and 2; (3).* Professor ROLFE, Mr. JONES.

10. TEACHER'S COURSE IN PHYSICAL GEOGRAPHY.—This course is designed primarily for those who expect to teach. The work includes discussions of the most approved methods of presenting each topic in class room, field, and laboratory, and the use which can be made of local geography, topography and geology, together with the fauna and flora as illustrative material. *I.; arrange time. (5).* Professor ROLFE, Mr. JONES.

*Prerequisite:* A good course in High School Physical Geography, or Geology 8.

For advanced work see under Geology 4, 108.

## PHYSICAL TRAINING.

### For Men.

1. GYMNASIUM PRACTICE.—Two hours' class work, calisthenic drills and heavy apparatus work, each week. *Required of freshmen. Must be taken with course 3. I., II., arrange time; (1½).* Mr. HANA.

2. GYMNASIUM PRACTICE.—Three hours each week in advanced heavy apparatus work. *I., II., arrange time; (1).* Mr. HANA.

*Prerequisite:* Physical Training 1 and 3.

3. Lectures upon personal hygiene once a week. *I., II., arrange time (½).* Mr. HANA.

### For Women.

7. PRACTICE.—Class and description exercises in the gymnasium and field. *I., II.; arrange time; (1).* *Required of freshmen.* Mrs. LINCOLN, Miss ATKINSON, Miss POHL.

8. PRACTICE.—Second year. Elective, *I., II.; (1).* Mrs. LINCOLN.

*Prerequisite:* Physical Training 7, 9.

9. HYGIENE.—The same as Physiology 6, which see. *Required of all freshmen. I.; M.; 4; (1);* Medical, Professor KEMP; Personal, Mrs. LINCOLN.

10. TEACHER'S COURSE. *I., II.; arrange time; (1).* Mrs. LINCOLN.

*Prerequisite:* Physical Training 7, 8, 9.

## PHYSICS.

1. GENERAL PHYSICS.—Lectures with class-room demonstrations, recitations and written exercises. This course is required of students in engineering and is recommended to students with major work in physics and mathematics. The laboratory course, Physics 3, is to be taken at the same time. *I., II.; Lectures, M., W.; 1; Quiz, F.; 9, 10 or 11; I., (3); II., (2).* Professor CARMAN, Assistant Professor WATSON, Mr. SCHULZ, Mr. SLUSS, Mr. BROWN, and Mr. HUDSON.

*Prerequisite:* Mathematics 3 or 4.

3. INTRODUCTION TO PHYSICAL MEASUREMENTS.—Laboratory experiments running parallel with the lecture course. Physics *I., II.; one of the following three-hour periods each week; Tu., Th.; 9-11; Tu., Th.; 2-4; (2).* Assistant Professor WATSON, Mr. SLUSS, Mr. HUDSON.

*Prerequisite:* Mathematics 3 or 4.

2a. GENERAL PHYSICS.—Lectures with classroom demonstrations and recitations. This course is similar to Physics 1 and is recommended for students in general science, medicine, and literature and arts. The laboratory course, Physics 2b, is to be taken with Physics 2a. *I., II.; Lectures, Tu., Th.; 11; Quiz, F.; 8; (2).* Professor CARMAN, Assistant Professor WATSON, Mr. BROWN.

*Prerequisite:* Mathematics 3 or 4.

2b. INTRODUCTORY LABORATORY PHYSICS.—A course of physical measurements to supplement the lecture course, Physics 2a. *I., II.; S.; 2-4; (2).* Assistant Professor WATSON, Mr. SLUSS, Mr. HUDSON.

*Prerequisite:* Mathematics 3 or 4.

4a. ELECTRICAL AND MAGNETIC THEORY.—Lectures and recitations with occasional class-room demonstrations. This course, in connection with Physics 4b, is intended for juniors in electrical engineering and students whose major is physics. The course covers the elementary mathematical theory of electrostatics, magnetism, electro-magnetic induction, magnetic properties of iron, and direct, alternating, and polyphase currents. Text-book for 1905-6,—*Joubert's Electricity and Magnetism*, by Foster and Porter. *I.; M., W.; section G, 10; section H, 9; (2). II.; M., W.; section H, 9; Th., F.; section G, 9; (2).* Assistant Professor KNIPP.

*Prerequisite:* Physics 1 and 3, or 2a and 2b; Mathematics 7 and 9, or 8a, desired.

4b. ELECTRICAL AND MAGNETIC MEASUREMENTS.—Laboratory experiments in exact electrical and magnetic measurements running parallel with the lecture course. This course can be taken only in connection with Physics 4a or its equivalent. *I.*; section A, Tu., W.; 1-3; section B, Th., F.; 1-3; section C, M.; 1-3, and S.; 8-10; (2). *II.*; section A, M.; 1-3, and S.; 8-10; section B, Th., F.; 1-3; section C., Tu., W.; 1-3; (2). Assistant Professor KNIPP and Mr. SCHULZ.

*Prerequisite:* See Physics 4a.

15. SHORTER COURSE IN ELECTRICAL AND MAGNETIC MEASUREMENTS.—Recitation and laboratory. This is a one semester course for mechanical, civil, and chemical engineering students who wish an elementary working knowledge of electricity and magnetism, who do not have the time to devote a whole year to the subject. The recitations cover the elementary theory of electrostatics, magnetism, electro-magnetism, direct and alternating currents. In the laboratory a selected list of standard electrical and magnetic experiments is performed, the work running parallel with the recitations. *I.*; Recitations, Tu., Th.; 3; Laboratory, F.; 1-3, S.; 8-10; (4). Mr. SCHULZ.

*Prerequisite:* Physics 1 and 3, or 2a and 2b; Mathematics 3 or 4.

16a. HEAT.—Lectures and recitations with occasional classroom demonstrations. Discussions and demonstrations of fundamental heat phenomena are given, together with the elements of the mechanical theory of heat. The course on Heat Measurement, 16b, is to be taken with this course. *I.*; Tu., F.; 8; (2). Assistant Professor WATSON.

*Prerequisite:* Physics 1 and 3, or 2a and 2b; Mathematics 7 and 9 advised.

16b. HEAT MEASUREMENTS.—Laboratory exercises including thermometry, calorimetry, determination of vapor pressure and density, melting and boiling points of substances, linear and cubical coefficients of expansion. This course is to be taken in connection with Physics 16a. *I.*; Tu., F.; 1-3; (2). Assistant Professor WATSON.

*Prerequisite:* Physics 1 and 3, or 2a and 2b; Mathematics 7 and 9 advised.

16c. THERMODYNAMICS.—Lectures and collateral reading on the principles and methods of thermodynamics. This course includes a discussion of thermometry, calorimetry, the laws of the conservation

and transformation of energy, and the application of these laws to typical physical and chemical changes. Text-book: *Planck's Thermodynamics. II.*; *arrange time.* Mr. HUDSON.

*Prerequisite:* Physics 1 and 3, or 2a and 2b; Chemistry 1; Mathematics 8a, or 8b, or 7 and 9.

17. THERMOMETRY OF HIGH AND LOW TEMPERATURES.—Primarily a laboratory course, but with frequent recitations on the theory of the measurement of extreme temperatures. *Le Chatelier's High Temperature Measurements. II.*; *arrange time*; (2). Professor CARMAN, Assistant Professors KNIPP and WATSON.

*Prerequisite:* Physics 16a and 16b.

18. TEACHERS' PREPARATORY COURSE.—Practical work for students preparing to teach physics. The course includes discussions of text-books, laboratory manuals, apparatus, catalogs, and methods of conducting work in physics; manipulation in blowing, bending and cutting glass, in soldering metals, and in managing a lecture lantern, etc.; and advanced work in laboratory physics. *I., II.*; *arrange time*; (2). Professor CARMAN and Assistant Professor WATSON.

Primarily for juniors and seniors.

*Prerequisite:* Physics 1 and 3, or 2a and 2b.

19a. MECHANICS AND GENERAL PROPERTIES OF MATTER. — An elementary consideration of kinematics, dynamics, statics, work and energy, together with gravitation attraction and potential. *I.*; *M., W., F.*; 9; (3). Assistant Professor KNIPP.

*Prerequisite:* Physics 1 and 3, or 2a and 2b; Mathematics 7 and 9, or 8a desired.

19b. MECHANICS.—A course in exact measurement of mass, length, volume, density, time, and gravity, using balance, dividing engine, cathetometer, chronograph, etc. *I. or II.*; *arrange time*; (2, 3 or 5). Assistant Professor KNIPP.

*Prerequisite:* Physics 1 and 3, or 2a and 2b; 19a desired.

20a. LIGHT.—Recitations and seminary. In the seminary the members of the class take turns in giving experimental demonstrations of the more elementary phenomena discussed in the text. *II.*; *Tu., Th.*; *arrange time*; *F.*; 4; (3). Assistant Professor KNIPP.

*Prerequisite:* Mathematics 7 and 9, or 8a; Physics 19a desired.

20b. LIGHT.—Measurement of indices of refraction and wave lengths, using the spectrometer with prisms and grating, the concave grating with its mounting; also the use of the optical bench in ex-

periments in interference; photometric measurements and the use of the spectrum-photometer. *I. or II.; arrange time; (2, 3, or 5).* Assistant Professor KNIPP.

*Prerequisite:* Physics 1 and 3, or 2a and 2b; 20a desired.

21. RECENT ADVANCES IN PHYSICAL SCIENCE.—Lectures illustrated by experiments. This course is primarily for students whose major is physics; however, it is open to advanced science and engineering students interested in physical phenomena. For 1905-6 the subject was radiation. (Not to be given in 1906-7.) *I.; 4; (1).* Assistant Professor KNIPP.

22. PHYSICAL PROBLEMS.—The application of mathematics to the solution of physical problems in mechanics, heat, electricity, magnetism, sound, and light. *II.; arrange time; (2).* Assistant Professor KNIPP.

*Prerequisite:* Physics 1 and 3, or 2a and 2b; Mathematics 7 and 9.

23. LABORATORY PRACTICE IN PHOTOMETRY.—Study of Photometric methods, quantitative study of artificial light sources. *I.; arrange time; 1-3; (2).* Assistant Professor KNIPP.

*Prerequisite:* Physics 4a and 4b.

30a. ELECTRICITY AND MAGNETISM.—Elementary Mathematical theory. *II.; W., F.; (3).* Assistant Professor KNIPP.

*Prerequisite:* Physics 20a, 4a; Mathematics 7 and 9, or 8a.

30b. ELECTRICITY AND MAGNETISM. — A course of electrical measurements, including experimental work in some of the more recent developments, such as electric waves and their application to wireless telegraphy, electrical discharge in gases, etc. *I. or II.; arrange time; (2, 3, or 5).* Assistant Professor KNIPP.

*Prerequisite:* Physics 4a, 30a desired.

31. INVESTIGATION OF SPECIAL PROBLEMS.—An advanced course in the laboratory or in design and calculation, in continuation of Physics 4, 16, 19, 20, or 30. A special topic is assigned and worked out with the advice and direction of the professor. The repeating of some classic investigation may be assigned. Among the recent problems were the following designs of pieces of apparatus which were also constructed and calibrated in the department: An inductance without iron, variable continuously from zero to 1.2 henry; an inductor dynamo machine giving a sine wave; an exact potentiometer to measure to 150 volts and also to 150 amperes; two testing tables for standardizing ammeters and voltmeters. *I., II.; arrange*

*time; (3 or 5).* Professor CARMAN, Assistant Professors KNIPP and WATSON.

*Prerequisite:* One semester of Physics in advance of Physics 1 and 2.

32. MATHEMATICAL PHYSICS.—Lectures and recitations on special topics in theoretical physics. *I., II.; arrange time; (3).* Professor CARMAN.

*Prerequisite:* Physics 19.

33. INVESTIGATION AND THESIS.—*I., II.; arrange time; (3 or 5).* Professor CARMAN, Assistant Professors KNIPP and WATSON.

### COURSES FOR GRADUATES

Courses 4, and 16-33. These courses, open to advanced undergraduates, are arranged with additions for graduate credit.

101. Advanced Physical Measurements and Investigation.

102. Mathematical Physics.

103. Mathematical Theory of Electricity and Magnetism for Engineers.

### PHYSIOLOGY

I. MAJOR COURSE.—This course is designed for medical students whose previous training has given them a broad foundation in physics, chemistry, zoölogy and embryology. It embraces three lines of work, viz., histology (microscopic anatomy), physiological chemistry and physiology proper. It begins with a comprehensive study of the microscopic structure of the tissues in general, and later includes the structure of the organs in particular with special relation to their functions. This course gives the student a year's experience in technique and in the identification of tissues under the microscope, and fits him especially to profit by advanced work in pathology—both general and surgical. The part of the field which is common to physiology and to physiological chemistry is covered, as far as possible, in the first semester, and a number of lectures are added to supplement the course which the student has already taken in organic chemistry (9 and 9c), thus making a course in physiological chemistry which is fairly complete. For the sake of laboratory work this course should be rounded out when possible, by elective work in physiology 2 or 7. Full credit in physiological chemistry on the medical course is not recommended unless such a supplementary elective course be taken. The work in physiology proper runs throughout the year. The wide scope of the course, as

a whole, makes it impossible to cover the entire field, and give the proper amount of time for laboratory work. For this reason the physiology of the grain and of special senses is not treated fully. These subjects are studied in advanced courses in the medical school, and the student can take them there in their proper place. The course is accompanied by many demonstrations, but for the benefit of the student these cannot take the place of personal experiments, so for this reason it is urgently recommended that Physiology 2 be elected, when possible. *I., II., daily; 10, 11; (5).* Professor KEMP, Mr. CLARK.

*Prerequisite:* Physics 1, 3; Chemistry 1, 2, 3a, 5a, 9, 9c; Zoölogy 2, 3.

2. ADVANCED COURSE.—This course is designed for students who wish to get as thorough a training as possible for the study of medicine. It is supplementary to Physiology 1, and can best be taken the year after Physiology 1 is completed, but may also be taken parallel with physiology 1 by arrangement with the head of the department. The course consists of lectures, assigned reading, and experiments. The experiments are conducted mostly by the students working in small groups, and conferences on the results of such experiments are held from time to time under the direction of the professor. Towards the end of the first semester about two hours a day for six weeks is devoted to urine-analysis. The student taking this is relieved from the ordinary routine work in such courses in the College of Medicine, and may devote his time there to cases of special interest. The work in this course also gives considerable experience in operative surgery, in the methods employed in studying the action of drugs, and in the use of apparatus for the finer kinds of clinical diagnosis. *I., II., daily; arrange hours; (5).* Professor KEMP, Mr. CLARK.

*Prerequisite:* Same as for Physiology 1.

3. INVESTIGATION AND THESIS.—Every facility and encouragement, so far as the resources of the laboratory permit, are offered to those prepared to avail themselves of these for researches leading to theses for the bachelor's, master's or doctor's degree, or for carrying on original work for publication.

4. MINOR COURSE.—Especial emphasis is laid upon those facts that serve as a basis for practical hygiene, and for helping students to teach physiology in high schools. Lecture demonstrations, recitations, and laboratory work. Students who have had chemistry and

zoölogy in high schools only, may be admitted to the course at the option of the instructor. *II.; daily; 2, 3; (5).* Professor KEMP, Mr. CLARK.

*Prerequisite:* Chemistry 1, Zoölogy 10.

5. SPECIAL PHYSIOLOGY.—This course is given to meet an emergency, which sometimes arises, where a student wishes to take up a special line of work not specified in one of the other courses, and not involving the preparation of a thesis. At the discretion of the head of the department students may register for such work. Arrange details with the instructor.

6. HYGIENE.—This course must be taken by young women who take physical training for credit. The course deals with those practical hygienic questions of everyday life that are wholly or in large part under the control of each individual. *I.; M.: 4; (1).* Professor KEMP and Mrs. LINCOLN.

7. PHYSIOLOGICAL CHEMISTRY.—This course is designed for students who have not the time, or who can not fulfil all the requirements, for Physiology 1 and 2. It consists of lectures given in Physiology 1 and laboratory work given in Physiology 2. It includes urine-analysis. Students taking this course must be prepared to be present daily, the fourth hour, with Physiology 1. When this class is engaged on non-chemical work the students in 7 will be excused. (The nature of the work in Physiology 1 precludes a more definite arrangement.) The laboratory hours may be arranged with the instructor, but they must be in the afternoon while the class in Physiology 2 is covering the same ground. During the months of December and January the students must be able to arrange one hour daily in common with Physiology 2. This hour may be either at 1, 2, or 3 by agreement with the instructor. Throughout the semester the course averages about three hours lectures and eight hours laboratory work, which gives it a value of seven credits. *I., daily; II and arrange time; (7).* Professor KEMP, Mr. CLARK.

*Prerequisite:* Chemistry 1, 2, 3a, 5a, 9, 9c.

8. HISTOLOGY.—This is the histological part of Physiology 1. It may be taken by those who can not meet the requirements for that course. Students who register in 8 must be present daily with Physiology 1 at the third hour, and, when demonstrations are given which last for two hours, they will be expected to remain during the fourth hour also. When Physiology 1 is engaged on other

work, during the third hour, the students in 8 will be excused. *I., II.; daily; 10, 11; (2½).* Professor KEMP, Mr. CLARK

*Prerequisite:* Chemistry 1; Zoölogy 2, 3.

9. **TEACHERS' SPECIAL LABORATORY COURSE.**—This course consists of special work with simple apparatus to train the student in methods of demonstration for prospective high-school teachers. This course may be taken after Physiology 4, and is recommended for those who wish to work a year in physiology without having the requirements to enter the class in Physiology 1. It may also be taken for less than five credits. Work to be arranged after consultation with instructor.

10. **PHYSIOLOGICAL JOURNAL CLUB.**—This club is composed of the teaching staff of the department, the graduate students, and such undergraduates as are sufficiently advanced to participate. Recent articles of interest in current journals will be reported and discussed. This will give the student practice and confidence in presenting a condensed synopsis of a subject before a meeting. Each student will have to report a paper about once in two months. Time will be arranged, as far as possible to suit the convenience of members of the club.

## POLITICAL SCIENCE

1. **AMERICAN GOVERNMENT.**—An introductory course to the study of national and state government in the United States, particular emphasis being given to historical development, organization, powers, limitations and practical working. *I.; M., W., F.; 9; (3).* Assistant Professor GARNER.

*Prerequisite:* At least 30 hours of University work.

2. **COMPARATIVE POLITICS.**—A comparative study of the national political systems of the United States, Great Britain, France, Germany and Switzerland, with special reference to constitutional beginnings, political organization, methods of legislation and administration, and constitutional guarantees for the protection of individual rights. Open to juniors, seniors and graduate students who have had course 1, or its equivalent. *II.; M., W., F.; 8; (3).* Assistant Professor GARNER.

3. **COMPARATIVE STATE CONSTITUTIONS.**—A study of the evolution of the American state constitution from the colonial charter; powers, rights and obligations of states under the Federal Constitution; methods of formation and of admission to the Union; com-

parative study of the organization of commonwealth government; constitutional resemblances and diversities. *II.; Tu., Th.; 9; (2).* Assistant Professor GARNER.

*Prerequisite:* Political Science 1.

4. MUNICIPAL GOVERNMENT.—A study of the organization and administration of city government in the United States and in Europe. Emphasis is given to the causes which have led to the phenomenal growth of cities; powers and liabilities of municipal corporations; and the problem of governing the modern municipality, such, for example, as those relating to urban transportation, police, light and water supply, charities, education, municipal ownership of public utilities, etc. Lectures, assigned readings and reports. *I.; Tu., Th.; 9; (2).* Assistant Professor GARNER.

5. FEDERAL AND STATE ADMINISTRATION.—A survey of federal and state administrative activities. The organization and work of the nine executive departments and of the various commissions and agencies of the national government; the state administrative departments of education, health, insurance, mines, factories, etc.; and the administrative law governing official relations. *II.; Tu., Th.; 8; (2).* Assistant Professor GARNER.

*Prerequisite:* Political Science 1.

6. INTERNATIONAL LAW.—The development of the law of nations; its nature, source and present status; the equality of states; the doctrine of intervention; the law of war and peace; the rights and duties of neutrals; the arbitration movement. Lectures, recitations, assigned readings and reports. Open to juniors and seniors. Others who are qualified may be admitted by special permission. *I.; M., W., F.; 8; (3).* Assistant Professor GARNER.

7. AMERICAN DIPLOMACY.—A study of the genesis and present organization of the Department of State; the diplomatic service; the treaty making power; the methods and traditional principles of the foreign policy of the United States; historical review of the principal diplomatic controversies between the United States and foreign powers from the foundation of the government to the present time; and the elevation of the United States to the position of a world power. *II.; M., W., F.; 9 (3).* Assistant Professor GARNER.

*Prerequisite:* Political Science 6.

8. GOVERNMENT AND INSTITUTIONS OF ILLINOIS.—A study of the organization and administration of civil government, central and local, in Illinois. This course may be combined advantageously

with history 17. *I.; Tu., Th.; 8; (2).* Assistant Professor GARNER.

9. SEMINARY IN CITIZENSHIP.—A study of the constitutional and legal aspects of citizenship. Distinction between federal and state citizenship; how acquired and how forfeited; rights, privileges and obligations of citizens under the constitution. Assigned topics and reports. For advanced students only. *I.; (1); arrange time.* Assistant Professor GARNER.

10. SEMINARY IN CIVIL RIGHTS.—A study of the personal and property rights of the individual under the Federal Constitution; the nature and content of civil liberty; and the extent to which it is protected in the United States from governmental encroachment. Assigned topics and reports. For advanced students only. *II.; (1); arrange time.* Assistant Professor GARNER.

11. CONTEMPORARY POLITICS.—A study of important public questions of current interest, local, national and international. The course is based on a study of periodical literature, public documents and newspapers. Open to all qualified students. *I., II.; (1); arrange time.* Assistant Professor GARNER.

## PSYCHOLOGY

1. ELEMENTARY PSYCHOLOGY.—This course is intended for beginners in psychology. James' Psychology is used as a text. *I.; M., W., F.; 8; (3).* Associate Professor COLVIN.

2. INTRODUCTION TO PSYCHOLOGY.—The object of this course is to give the student a complete though tentative system of psychology based upon the results of experimental investigation. *II.; M., W., F.; 10; (3).* Associate Professor COLVIN.

*Prerequisite:* At least one year of University work.

3. EXPERIMENTAL PSYCHOLOGY.—The object of this course is to train the student in laboratory methods and give him an acquaintance with normal psychical phenomena. *I.; Lectures, M., 11; arrange time for laboratory; (3).* Associate Professor COLVIN.

*Prerequisite:* Psychology 1 or 2, and a familiarity with laboratory method, gained through a laboratory course in some other department.

4. EXPERIMENTAL PSYCHOLOGY. — This is a continuation of course 3. The laboratory method is continued in the study of the higher psychic activities. *II.; Lectures, M., W.; 11; arrange time for laboratory; (3).* Associate Professor COLVIN.

*Prerequisite:* Same as Psychology 3.

5. GENETIC PSYCHOLOGY.—The more substantial results of child study serve as a basis for the first part of the course, while the latter part is devoted to the phenomena of adolescence, and the intellectual problems confronting the youth. The development of the nervous system and growth of the body are traced in connection with the mental development. *I.; Tu., Th.; 10; (2).* Associate Professor COLVIN.

*Prerequisite:* Two years of University work.

6. COMPARATIVE PSYCHOLOGY.—It is the aim of this course to trace the evolution of intelligence in connection with that of the nervous system from the lowest forms of animal life to that of man. The psychology of the higher vertebrates will be particularly studied and compared with that of the child and of the adult. *I.; Tu., Th.; 8; (2).* Associate Professor COLVIN. [Not offered in 1906-07.]

*Prerequisite:* Psychology 1 or 2.

8. THE PSYCHOLOGY OF THE EMOTIONS AND THE WILL.—This course considers critically the principal phenomena of volition and feeling as distinguished from those of the intellect. Illustrations will be taken largely from biography, history, and literature. *II.; Tu., Th.; 10; (2).* Associate Professor COLVIN.

*Prerequisite:* Psychology 1 or 2.

9. PHYSIOLOGICAL PSYCHOLOGY.—In this course the growth and structure of the central nervous system and of the sense organs are outlined; the characteristics of sensation and its place among the elements of consciousness discussed, and the functions and psychology of the various sense organs presented. The physiological basis of the emotions is also considered. The work may be taken in connection with Psychology 1. Otherwise an elementary course in psychology shall constitute a prerequisite. *I.; Tu., Th.; 8; (2).* Associate Professor COLVIN.

#### COURSES FOR GRADUATES

101. ORIGINAL RESEARCH.—Opportunity to investigate advanced problems in experimental psychology, and in comparative and genetic psychology is offered to those properly qualified. *I., II.; arrange time.* Associate Professor COLVIN.

102. JOURNAL CLUB.—This course considers the most important problems of contemporary psychology as they are presented in current psychological and philosophical journals. The seminary method is used. Although intended for graduates, the course under certain

conditions may be elected by seniors. *I., II.; arrange time; (2).* Associate Professor COLVIN.

### RAILWAY ENGINEERING

1. LOCOMOTIVE ENGINES.—This work is a study of the constructive features of the locomotive in all its parts and of their relations. The development, applications, and limitations of the various types and their special study with reference to the relations between boiler and cylinder capacity, weight on drivers, speed, hauling capacity, etc. Tendencies in design. Includes also a study of all accessory apparatus used in the operation of locomotives. *I.; Tu., Th.; 10; (2).* Mr. SNODGRASS.

*Prerequisite:* Theoretical and Applied Mechanics 1; Physics 1, 3; Mechanical Engineering 7.

2. LOCOMOTIVE ENGINE DESIGN.—The proportions and dimensions of standard locomotives are studied. Calculations and designs relating to boiler and engine details, cylinder proportions for compound types of slide valves, and valve gears. *I.; M., W., F.; 9, 10, 11; (3).* Assistant Professor LEUTWILER.

*Prerequisite:* Mechanical Engineering 1 to 7, 23, 24; Theoretical and Applied Mechanics 1, 2.

3. SHOP SYSTEMS.—Lectures and readings. Visits of inspection. A study of the proceedings of the societies and railway clubs and the technical press. *I.; W.; 1, 2, 3; (1).* Mr. SNODGRASS.

4. LOCOMOTIVE ROAD TESTS.—Arrangements for locomotive road tests have been perfected with several roads entering Champaign and Urbana. Already five locomotives have been equipped for this work and tests made in actual service conditions. This work is greatly facilitated by the use of the dynamometer and railway test cars which are now at the service of the department. This course includes also brake tests and other laboratory work. *I.; M., F.; 1, 2, 3; S.; 9, 10, 11; (3).* Mr. SNODGRASS.

*Prerequisite:* Theoretical and Applied Mechanics 3; Mechanical Engineering 1 to 7, 14.

5. COMPRESSED AIR IN RAILWAY SERVICE.—This will include a careful study of the construction and operation of the air-brake system in detail. The air-brake instruction cars of the I. C. R. R. and the C. C. C. St. L. Ry., make frequent stops at these points, and the instructors in charge kindly devote sufficient time to illustrate and explain the operation of the air-brake. The use of com-

pressed air in shop service is also studied. *II.*; *Tu.*, 8; (1). Mr. SNODGRASS.

*Prerequisite:* Mechanical Engineering 7.

6. RAILWAY ESTIMATES.—A study of costs of materials and repairs. Forms of specifications for supplies. Costs of operation and maintenance of foreign and American practice compared. *II.*; *Tu.*; 9, 10; (1). Professor BRECKENRIDGE.

*Prerequisite:* Railway Engineering 1 to 4.

7. ADVANCED DESIGNING.—Under this head attention will be paid to details of rolling stock, pumps, gas and oil engines for water supply. Special machinery for repair shop service, turntables, and advanced problems relating to locomotive design. *II.*; *M.*, *W.*, *F.*; 9, 10, 11; (3). Assistant Professor LEUTWILER.

*Prerequisite:* Theoretical and Applied Mechanics 1, 2, 3; Railway Engineering 1, 4.

8. DYNAMOMETER CAR TESTS.—Investigations will be made under actual road conditions relating to hauling capacity of engines, train resistance due to acceleration, grades, curves, and wind pressure. Air-brake service inspection. Automatic records of track conditions as to gauge, surface, joints, and elevation of rails. Tests at stationary plants and railway shops will be made.

Arrangements for careful and scientific sampling of fuels, boiler waters, oils, paints, varnishes, and railway supplies for analysis and tests will be included in this work. *II.*; *M.*; 1, 2, 3; (1). Mr. SNODGRASS.

*Prerequisite:* Railway Engineering 4.

9. LOCOMOTIVES AND STEAM RAILWAYS, ELECTRIC RAILWAYS.—General treatment, giving peculiar adaptations and limitations of steam and electric roads; their adoption as determined by character of country or service and distance. Probable future changes in the latter; essential differences in operation. *II.*; *Tu.*, *Th.*; (6). Mr. SNODGRASS.

## RHETORIC AND ORATORY

1. RHETORIC AND THEMES.—Required for students in the College of Literature and Arts, Agriculture, Science, and Engineering. Students who, by their written work and by passing a satisfactory examination in the principles of rhetoric, give evidence of exceptionally good preparation may, however, be excused from this course and allowed to take course 15 instead. *I.*, *II.*; *M.*, *W.*, *F.*; section

*A*, 8; *section B*, 9; *section C*, 10; *section D*, 11; *section E*, 1; *section F*, 2; *section G*, 3; (3). Professor CLARK, Associate Professor FULTON, and assistants.

3. DAILY THEMES.—*Bates's Talks on Writing English, first and second series. I., II.; M., W., F.; section A*, 9; *section B*, 10; *section C*, 11; (4). Professor CLARK, Miss KYLE, Mr. SCOTT.

*Prerequisite:* Rhetoric and Oratory 1.

4. THE ART OF DEBATE.—The study and application of the principles underlying debating. *I.; M., W., F.; 3; (3).* Mr. ADAMS.

*Prerequisite:* Rhetoric and Oratory 1 and 7.

5. EXTEMPORE SPEAKING.—*I., II.; Th.; 3; (1).* Mr. ADAMS.

*Prerequisite:* Rhetoric and Oratory 1 and 7.

6. ENGLISH COMPOSITION (Advanced Course).—*I.; Tu., Th.; 10; (3).* Associate Professor FULTON.

*Prerequisite:* Fourteen hours of Rhetoric, or of Rhetoric and English.

7. PUBLIC SPEAKING.—An introductory course in public speaking—vocal, breathing, action and declamation exercises supplemented by text-book and individual instruction. May be begun either semester. *I.; section A, M., W.; 2; section B., Tu., Th.; 2; (for beginners); section C, Tu., Th.; 1; (for students having had one semester's work in the subject). II.; section A, M., W.; 2; section B, Tu., Th.; 2; (for students having had one semester's work in the subject); section C, Tu., Th.; 1; (for beginners); (2).* Mr. ADAMS.

8. SEMINARY.—Methods of teaching English composition. Open to senior and graduate students. *II.; W.; arrange time; (1).* Associate Professor FULTON.

9. DRAMATIC READING.—Critical study and presentation of two of Shakespeare's plays. Selection is made from the following plays: *Macbeth, Othello, Julius Cæsar, Hamlet, Merchant of Venice, Much Ado About Nothing, and As You Like It. I.; Tu., Th.; 9; (2).* Mr. GUILD.

*Prerequisite:* Rhetoric and Oratory 7.

10. BUSINESS WRITING.—Business Correspondence, the making of summaries and abstracts, advertising, proof reading, and the preparation of manuscript for the press. (Open only to students in business courses.) *I., II.; Tu., Th.; 11; (2).* Mr. GUILD.

*Prerequisite:* Rhetoric and Oratory 1.

11. COMPOSITION AND LITERATURE.—For students in the College of Engineering who elect English as their language. The course will be about equally divided between composition and English prose literature. *II.*; *M., W., F.*; 9; (3). Mr. ENO.

12. NEWSPAPER WRITING.—Problems in reportorial and editorial work, with weekly assignments on actual cases. Lectures, with class discussions, on newspaper ethics, responsibility, aims, and policy; with reference to past development and present tendencies. *I., II.*; *Tu., Th.*; 10; (2). Mr. SCOTT.

13. PRACTICE IN DEBATING.—Students who have shown proficiency in debating, and who wish to take part in any of the inter-collegiate debates should register in this course if they wish to receive credit for their work. *I. or II.*; *three meetings a week; arrange time*; (1 to 2). Mr. ADAMS.

14. ORATORICAL COMPOSITION AND DELIVERY.—The leading English and American orations are read and criticized. Students write and deliver two orations. Lectures and supplementary reading. *II.*; *M., W., F.*; 3; (3). Mr. ADAMS.

*Prerequisite:* Rhetoric and Oratory I and 7.

15. RHETORIC AND THEMES.—Required of all students in the Colleges of Literature and Arts, Agriculture, Science, and Engineering who are excused from taking Course I. *I.*; *M., W., F.*; 3; (3). Mr. SCOTT, Mr. FOX, Mr. GUILD, Mr. ENO, Miss PITTS, Miss BULLARD.

16. EXPOSITION.—Study of the principles underlying the expository method; analysis of masterpieces of exposition, both literary and scientific; themes. *I.*; *M., W., F.*; 10; (3). Associate Professor FULTON.

*Prerequisite:* Rhetoric and Oratory I.

17. PRINCIPLES OF CRITICISM.—A study of the principles underlying the art of criticism; reports and essays; Winchester's *Principles of Literary Criticism*. Open to juniors, seniors, and graduates. *I.*; *Tu., Th.*; 2; (3). Associate Professor FULTON.

*Prerequisite:* Fourteen hours of rhetoric, or of rhetoric and English.

18. THE ART OF CRITICISM.—Study of selected masterpieces in English literary criticism; reports and essays. The works chosen for study will be, for the most part, from the essays of Lamb, Coleridge, DeQuincey, Carlyle, Arnold, and Pater. *II.*; *Tu., Th.*; 10; (3). Associate Professor FULTON.

*Prerequisite:* Seventeen hours of rhetoric or of rhetoric and English.

19. HISTORY AND PRINCIPLES OF ENGLISH VERSIFICATION.—Theory of English metre and rhythm; history of the development of the forms of English poetry. *II.; Tu., Th.; 9; (2).* Mr. SCOTT.

### SOCIOLOGY

See Economics 15, 17, English 19, Anthropology 1, 2.

### SPANISH

1. ELEMENTARY COURSE.—Spanish grammar and reading. Composition. *I., II.; M., W., F.; 9; (3).* Assistant Professor CARNAHAN.

2. Reading of modern fiction and drama. Composition. *I., II.; Tu., Th.; 9; (2).* Professor OLIVER.

*Prerequisite:* Spanish 1.

### THEORETICAL AND APPLIED MECHANICS

See Mechanics (p. 277.)

### THREMMATOLOGY

1. APPLIED EVOLUTION.—The principles of evolution as applied to the improvement of domesticated animals and plants. Variation, its extent and causes. Selection and its effect in changing type, as illustrated both in nature and in domestication. The nature of heredity and the manner of its operation under the influence of environment. Reflex action, habit, and instinct, as bearing upon the question of inheritance of acquired characters. The origin, correlation, and disappearance of characters. The laws of frequency and regression as bearing upon achievements that may be confidently expected. *II.; daily; 11; (5).* Professor DAVENPORT.

*Prerequisite:* Two years of University work.

2. INVESTIGATION AND THESIS.—*I., or II.; (5).* Professor DAVENPORT.

### VETERINARY SCIENCE

2. VETERINARY MATERIA MEDICA.—This subject, which treats of the agents for the cure of disease or injury, and for the preservation of health among domestic animals, is taught by lectures and text-books, illustrated by specimens of the drugs used in veterinary

practice. The compounding of medicines also receives attention. Text-book, *Finlay Dun's Veterinary Materia Medica*. I., II.; daily; 10; (5). Professor McINTOSH.

4. ANATOMY, PHYSIOLOGY AND DISEASES OF THE DOMESTIC ANIMALS.—The subjects taught during the second semester are the outlines of veterinary anatomy, physiology and diseases of the digestive organs, respiratory organs, the organs of circulation, the lymphatic system, the urinary organs, the skin, tumors and the nervous system. I.; daily; section A, 9; section B, 4; (5).

5. ANATOMY, PHYSIOLOGY AND DISEASES OF THE DOMESTIC ANIMAL.—The subjects taught during the second semester are the anatomy, physiology and diseases of the bones and joints, feet, wounds, eye, and generative system. Epizootic and contagious diseases, catarrhal fevers, pyemia, septicemia, rheumatism, tuberculosis, fistula, poll-evil and the internal parasites of the domestic animals. II., daily; section A, 9; section B, 11; (5).

## ZOOLOGY<sup>1</sup>

1. GENERAL ZOOLOGY.—A composite, elementary course in both vertebrate and invertebrate zoology, including a study of the classification, morphology, physiology, and natural history of a series of animals selected with special reference to the zoology of Illinois. Includes observational and experimental studies in field and in laboratory, and lectures on general and theoretical zoology. This course is offered primarily to general science students and to those preparing to teach. For the latter group of students there will be lectures, special readings, quizzes and discussions on the special pedagogy of zoology. I., II.; daily; 10 and 11; (5). Professor FORBES and Dr. PETERS.

*Prerequisite:* An entrance credit in chemistry or Chemistry 1; Art and Design 1. The chemistry and art and design may be taken parallel with the first semester of this course.

2. VERTEBRATE ZOOLOGY AND COMPARATIVE ANATOMY.—In the laboratory work of this course principal attention will be given to the anatomy of Necturus and to anatomical and systematic studies of fishes, birds and mammals. The course will contain lectures on the general theory of evolution with more attention to the evidences furnished by the anatomy and embryology of the vertebrates and especially of man. The ordinary technique of section cutting and

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<sup>1</sup>See also courses under Entomology.

staining will be included in the course. *II.*; *lecture, M., W., F.*; 9; *laboratory, 7 periods*; 8, 9; (5). Assistant Professor SMITH and Dr. CARPENTER.

*Prerequisite:* Art and Design 1; an entrance credit in chemistry or Chemistry 1; Zoology 10.

3. VERTEBRATE EMBRYOLOGY.—This course begins with a study of the sex cells and a discussion of theories of heredity, followed by a consideration of the early stages in the development of the egg. The formation of the vertebrate body is then studied in the amphibian, the chick, and the pig. Instruction is given in the preparation of embryological material and in graphic reconstruction from serial sections. *I., II.*; *M., W., F.*; 10, 11; (3).. Dr. CARPENTER.

*Prerequisite:* Zoology 1a or 2.

4. ZOÖLOGICAL ECOLOGY.—A course of lectures and field and laboratory work on the relation of animals to their environment, and on the practical and theoretical parts of zoölogy derived from this relation. Includes an analysis of the environment as related to animals, an analysis of the animal as related to its environment, and the interactions of these related factors, especially as shown by the adaptive structures, actions, habits, and instincts of animals. The laboratory work will consist largely of a study of such adaptive structures and actions, with problem work in experimentation and causal interpretation. *II.*; *M., W., F.*; 8, 9; (3). Professor FORBES, Dr. FOLSOM, and Dr. PETERS.

*Prerequisite:* Zoölogy 1 or 10.

8. THESIS INVESTIGATION.—Candidates for graduation who select a zoölogical subject as a thesis are required to spend three hours a day during their senior year in making a detailed investigation of the selected subjects. While this work is done under the general supervision of an instructor, it is in its methods and responsibilities essentially original work. *I., II.*; *arrange time*; (5). Professor FORBES, Assistant Professor SMITH, Dr. PETERS and Dr. CARPENTER.

*Prerequisite:* Two years in zoölogical courses.

10. INTRODUCTORY ZOÖLOGY.—This is a laboratory and lecture course, mainly on the morphology, physiology, and ecology of type forms, and on the more important features of cytology and development. The work leads to an acquaintance with the simpler generalizations of zoölogical theory, and is a suitable preparation for course 2. Students who present an entrance credit in zoölogy or biology

may take as a fractional course those parts of this work not covered in their previous study. *Section A, for other than medical students; I.; 8, 9; (5); or II.; 1, 2, (5).* Dr. PETERS. *Section B, for medical students; I.; 1, 2; (5).* Dr. CARPENTER.

12. STATISTICAL ZOOLOGY.—This course is offered for students taking Mathematics 26. It includes lectures and reference reading on the application of statistical methods to biological problems. The history of the development of this mode of biological investigation, the nature of the problems to which it is applicable and some of the results already obtained in the study of variations, heredity, distribution and phylogeny are among the topics considered. Students taking this course, together with Mathematics 26b, ordinarily use for the problems of the latter course, zoölogical data that have been obtained either by their own observations or from other sources. If desired the combined credits of this course and Mathematics 26 may be counted as 5 credits either in zoölogy or in mathematics. *II.; Tu.; 9; (1 or 5).* Assistant Professor SMITH.

*Prerequisite:* Mathematics 2, 4, 6, 8a, and at least ten hours of University work in Zoölogy, or in Zoölogy and Entomology.

14. GERMAN READINGS.—A study of zoölogical literature in German intended to give technical information and practice in accurate and rapid reading. This course, together with botany 13, will be accepted instead of German 6 of the prescribed list of all except students in chemistry and chemical engineering. *II.; arrange time; (4).*

*Prerequisite:* German 4.

15. VARIATION AND HEREDITY.—A course of lectures and reference reading designed to give a general survey of the results obtained by the application of modern statistical methods in the study of variation and heredity. A knowledge of the methods is acquired from lectures and from exercises in handling data gathered from various sources. Mendel's principles and the theory of mutations are discussed. For accompanying laboratory work see 5a. *I.; arrange time; (2).* Assistant Professor SMITH.

*Prerequisite:* Zoölogy 10 or 1a.

15a. STATISTICAL DATA.—Laboratory work involving the collection of data suitable for a study of the variations and correlations of structures in some suitable organism may be elected in connection with course 5. The extensive collections of insects, fishes and plankton material in the possession of the State Laboratory of Natural His-

tory are available for the purpose of this course. *I.; arrange time; (1 to 3).* Assistant Professor SMITH.

*Prerequisite:* Zoölogy 10 or 1a.

16. PHYSIOLOGICAL ZOÖLOGY.—This course will deal with the relation between the processes of animals and of free-living cells, and certain conditions of their environment. Field observations and some measurements will be made of the physico-chemical conditions which a body of water in this vicinity provides for animal life. Laboratory studies of animals and cells placed under experimental conditions will follow. The laboratory work will consist of practice in experimental methods and of their application to certain problems. Special attention will be given to osmotic pressure and ion physiology. The aim will be to develop the general principles of animal physiology and to give a training in scientific method as applied to zoölogical problems in the collection and explanation of data. *I.; M., W., F.; 8, 9; (3); and II.; M., W., F.; 1, 2; (3).* Dr. PETERS.

*Prerequisite:* Zoölogy 10 or 1a, and Chemistry 1, which may be taken parallel with this course.

The work of the course will be so arranged that students may begin their work either semester and continue it for either one semester or a year.

17a. FIELD ZOÖLOGY.—A course in which the main object will be to gain as comprehensive a knowledge as practicable of the animal life of a restricted locality. Collection, preservation, and identification of various kinds of animals, together with observations of the habits, life histories, and relations to environment of selected forms, will constitute the major part of the work. The phases of the subject receiving most attention will vary with the make-up of the class and with the kind of locality selected, but in any event the work will be so planned as to make it a desirable course for prospective teachers of zoölogy. *I.; arrange time; (3).* Assistant Professor SMITH.

*Prerequisite:* Zoölogy 10 or 1a.

17b. FIELD ORNITHOLOGY.—A course especially designed to give an acquaintance with the birds of the vicinity. Identification, food relations, seasonal distribution, and migration activities receive chief attention. Students are expected to provide themselves with opera or field-glasses. *II.; arrange time; (2).* Assistant Professor SMITH.

## COURSES FOR GRADUATES

Zoölogy 2<sup>1</sup>, 3, 4, 8, 12, 15, 16, and 17 may be taken for undergraduate or graduate credit; and the following for graduate credit only:

101. PLANKTON ZOÖLOGY.—Instruction and practice will be given in modern methods of studying minute forms of aquatic life with the aid of a plankton apparatus and laboratory equipment. This work includes both a qualitative and quantitative investigation of the minute zoölogical contents of a selected body of water, carried on systematically through a considerable period, and the generalization of the results of such study by the methods peculiar to the planktologist.

102. FRESH-WATER ICHTHYOLOGY.—The large collection of fishes belonging to the University and the State Laboratory of Natural History, together with the ichthyological library of the latter, are open to students who wish to become acquainted with the ichthyology of a fresh-water situation. Both qualitative and quantitative studies of the fishes of a selected body of water are made, and papers written presenting the results of personal studies in this field.

103. FRESH-WATER AND TERRESTRIAL ANNELIDS.—This is an application of the methods of the zoölogical laboratory to the study of the annelid worms of the land and the inland waters of North America. The description of genera and species, practice in drawing for publication, and experimental work on the physiology and ecology of selected forms will be included.

104. PHYSIOLOGICAL ZOÖLOGY.—In this course the student will be taught the principles and practice involved in the application of physical and chemical methods to physiological experimentation upon animals. Selected portions of the literature of experimental and physiological zoölogy will be read and discussed. The laboratory work will consist of exercises that illustrate advanced methods, or, of a problem using such methods. The latter may constitute a thesis.

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<sup>1</sup>Open as a graduate course only to those who have had zoology 1a or its equivalent.

# GRADUATION AND DEGREES

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## GRADUATION

The candidate for a degree must complete all the subjects prescribed for graduation in his course, and when, in doing this, he does not gain the necessary one hundred and thirty hours of credit he must make up the deficiency by electing other subjects.

The combinations of studies under which a student may graduate are too numerous to describe; they are given to some extent under the separate colleges and schools.

Examinations are held as often as in the judgment of the instructor the necessities of the work require. Examinations are also given at the close of each semester, on the work of the semester, in all subjects except those whose character renders it unnecessary or impracticable.

## BACHELORS' DEGREES

The usual bachelors' degrees are conferred upon those who satisfactorily complete the courses of study described under the different colleges and schools, and do either the first three years, or the last year, of their work in residence at the University. A candidate for a bachelor's degree must pass in the subjects marked *prescribed* in his chosen course, and must conform to the directions given in connection with that course in regard to electives. In the College of Literature and Arts, of Science and of Agriculture, credit for 130 hours is required for graduation. In the College of Engineering, in the College of

Law, and in the Schools of Music and Library Science the candidate must complete the course of study as laid down. The number of hours required includes five in military drill and tactics and two in physical training for men, and three in physical training for women. Men excused from the military requirements, and women who do not take courses in physical training, must elect in lieu thereof an equivalent number of hours in other subjects.

In all cases in which a thesis is required,<sup>1</sup> the subject must be announced not later than the first Monday in November, and the completed thesis must be submitted to the dean of the proper college by June 1st. The work must be done under the direction of the professor in whose department the subject belongs, and must be in the line of the course of study for which a degree is expected. The thesis must be presented upon regulation paper, and is deposited in the library of the University.

1. The degree of Bachelor of Arts is conferred on those who complete a course in the College of Literature and Arts, or of Science.

2. The degree of Bachelor of Science is conferred on those who complete a course in the College of Engineering or of Agriculture. This degree is conferred on a graduate of the College of Science who completes a course in ceramics, and may be conferred on graduates from other courses in this college on recommendation of the Faculty, as announced on p. 75.

3. The degree of Bachelor of Laws is conferred on those who complete the course in the College of Law.

4. The degree of Doctor of Medicine is conferred on those who complete the course in the College of Medicine.

5. The degree of Bachelor of Library Science is conferred on those who complete the course in the School of Library Science.

6. The degree of Bachelor of Music is conferred on

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<sup>1</sup>See requirements for graduation in the different colleges.

those who complete one of the courses in the School of Music.

7. The degree of Graduate in Pharmacy is conferred on those who complete the course in the School of Pharmacy.

8. The degree of Doctor of Dental Surgery is conferred on those who complete the course in the College of Dentistry.

## SCHOLARSHIPS

[For information more in detail concerning these scholarships, write W. L. Pillsbury, Registrar, Urbana.]

### COUNTY SCHOLARSHIPS

A law passed by the General Assembly of the State of Illinois at the session of 1905 provides that there may be awarded annually to each county of the state one scholarship. The holder thereof must be a resident of the county to which he is accredited, and is entitled to free tuition in other than the preparatory and professional schools of the University.

A competitive examination under the direction of the President of the University shall be held at the county court house in each county of the state upon the first Saturday of June in each and every year by the county superintendent of schools upon such branches of study as the President of said University may deem best.

Having passed the examination successfully the candidate must then meet in full the requirements for admission to the freshman class and register the following September.

Questions for such examinations shall be prepared and furnished by the President of the University to the several county superintendents of schools prior to such examinations.

The law also provides that in case the scholarship in any county is not claimed by a resident of that county the

President of the University may fill the same by appointing some candidate, resident of another county, who is entitled to a vacancy.

Candidates to be eligible to a state scholarship must be at least sixteen years of age, and must be residents of their respective counties.

A student holding a scholarship who shall make it appear to the satisfaction of the President of the University that he requires leave of absence for the purpose of earning funds to defray his expenses while in attendance, may, in the discretion of the President, be granted such a leave of absence, and may be allowed a period not exceeding six years from the commencement thereof for the completion of his course at said University.

The examination will be held June 2, 1906, and June 1, 1907.

Any person, whether a candidate for a scholarship or not, may be examined for admission to the University at this scholarship examination.

#### **GENERAL ASSEMBLY SCHOLARSHIPS**

The same act by which the county scholarships described above were established also provides that each member of the General Assembly may nominate annually one eligible person from his district for a scholarship in the University granting the same privilege as the county scholarships, and to be conferred under the same conditions with regard to examination, meeting entrance requirements, and registration.

#### **SCHOLARSHIPS IN CERAMICS**

The University offers each county in the State, one scholarship, awarded annually by the Trustees of the University, upon the nomination of the Clay Workers' Association, to applicants who intend to pursue either of the regular courses in ceramics.<sup>1</sup> These scholarships are good for four years and relieve the student from payment of the matriculation and incidental fees.

<sup>1</sup>See pages 100-102.

The applicant must meet *in full, before entering*, the requirements for admission to the freshman class.

#### **SCHOLARSHIPS IN AGRICULTURE AND HOUSEHOLD SCIENCE**

The University offers every year to each county in the state, except Cook and Lake, and to each of the first ten congressional districts, one scholarship for prospective students of Agriculture in the College of Agriculture and one for prospective students of Household Science in the College of Literature and Arts, the College of Science, or the College of Agriculture.

Appointments are made by the Trustees of the University to scholarships in Agriculture upon the recommendation of the executive committee of the Illinois Farmers' Institute, and to scholarships in Household Science upon the recommendation of the County Domestic Science Associations. Young men under 16 years of age and young women under 18 years of age and those who have already attended the University are not eligible. Acceptable candidates, residents of counties or districts for which appointments have been made, made be assigned to counties or districts not yet represented.

The scholarships are good for two years and relieve the holders from the payment of the matriculation fee, \$10.00, and the incidental fee, \$24.00 a year. The term of a scholarship may be extended four years, if, before it expires, the holder satisfies in full the requirements for admission to the freshman class of the college in which he is enrolled.

#### **MILITARY SCHOLARSHIPS**

Students who have gained 3 hours in class room military instruction and 4 in drill practice, are eligible for appointment as commissioned officers of the regiment or battery. Those attaining this rank may be awarded special scholarships, good for one year, and equal in value to the University incidental fees for the same length of time.

## PRIZES

**MILITARY DECORATIONS**

Bronze medals typical of the University and its Military Department are awarded by the University to the members of the Infantry Company and Artillery Gun Detachment which shall score the greatest number of points at the Annual Competitive Drill. The medals so awarded become the permanent property of the recipients. A complete roster of the winning organizations is published in the University Catalog for the following year.

**THE HAZELTON PRIZE MEDAL**

Capt. W. C. Hazelton provided in 1890 a medal, of beautiful and artistic design, which is to be awarded, at a competitive drill to be held near the close of the year, to the best drilled student. Each competitor must have been in attendance at the University at least sixteen weeks of the current college year; must not have had more than four unexcused absences from drill; and must present himself for competition in full uniform.

The award is made for excellence in these particulars:

1. Erectness of carriage, military appearance, and neatness.
2. Execution of the school of the soldier, without arms.
3. Manual of arms, with and without numbers.

The successful competitor will receive a certificate setting forth the facts, and may wear the medal until the 15th day of May following, when it will be returned for the next competition.

**INTERSCHOLASTIC ORATORICAL CONTEST**

A medal of the value of twenty dollars and two of the value of ten dollars each, are offered annually by the University to the high schools of the state for the best oration delivered in a competitive contest between their representatives. This contest takes place in the spring at the time of the interscholastic athletic meet.

**THE BRYAN PRIZE**

In 1898 Mr. William Jennings Bryan gave to the University two hundred and fifty dollars. From the interest of this sum a prize of twenty-five dollars is biennially offered for the best essay on the science of government. The contest is open to all matriculated undergraduate students. The essays may not be less than three thousand, nor more than six thousand, words in length, and must be left at the President's office not later than the second Wednesday in May. The prize was offered for the first time in 1901.

**UNIVERSITY HONORS**

The University has recently adopted the following plan whereby public official recognition is to be given to such students as attain a very high grade of scholarship. The following is the plan adopted by the University Senate:

*Preliminary Honors.* These shall be assigned on the completion of the sophomore year. The number of honors to be awarded shall not exceed one-tenth of the membership of the sophomore class. The exact number shall be determined by the Council of Administration, whose duty it shall be to receive the names of those students who are recommended by the various schools and colleges of the University, and after determining those who may receive honors, to report the list to the Senate. The basis of assignment shall be the scholarship of the student during the freshman and sophomore years. These honors shall be recommended by the schools and colleges and confirmed by the Senate in the manner above described.

*Final Honors.* These shall be assigned on graduation. The basis for the assignment shall be the scholarship of the students during the junior and senior years. Not more than one-tenth of the senior class shall receive such honors. The method of award shall be the same as in the case of preliminary honors.

*Special Honors.* These are awarded at the close of the senior year. No student may receive such honors who shall not have completed, before the beginning of senior year, at least twenty hours' work in the subject, or group of allied subjects, in which the honors are proposed; he must complete thirty hours' work in the same subject or group of allied subjects, by the end of his senior year, do such other work as the professor in charge may assign and must prepare an acceptable thesis. Special honors are awarded on the recommendation of the professor in charge, on the approval of the college or school in which the student is enrolled, and on confirmation by the Senate.

The names of all students receiving honors appear in the University catalog. A condition or a failure disqualifies a student from receiving general preliminary honors; either disqualifies a student from receiving final honors if received during junior or senior years. No student is eligible for special honors, who, during the period in which he is a candidate for the same, has received a grade of less than eighty-five in any subject.

Preliminary honors afford an opportunity for sophomores to secure recognition for high scholarship without waiting for graduating, as is often required. Final Honors are to be given to seniors in recognition of high scholarship, the terms being designed especially to favor students whose preparatory education has been so imperfect as to prevent them from obtaining preliminary honors. Special honors are planned for especially brilliant students who prefer to concentrate their efforts upon a special course. A student may be a recipient of both final and special honors.

## TRAINING FOR TEACHERS

### SPECIAL CERTIFICATE FOR HIGH SCHOOL TEACHERS

In addition to the usual diploma, the University will hereafter give graduates who meet certain requirements in the choice and pursuit of their four years' course, and

who give personal promise of success in teaching, a special certificate of preparation for high school teaching.<sup>1</sup>

#### COMMITTEE ON APPOINTMENT OF TEACHERS

This committee has in charge the naming of candidates from among University graduates for positions as teachers or supervisors of public schools, or instructors in normal schools, colleges, and technical schools. All requests coming to the University to recommend candidates for such positions go to this committee and should be addressed to the chairman, Professor H. A. HOLLISTER.

### BENEFICIARY AID

#### EDWARD SNYDER DEPARTMENT OF STUDENTS' AID

In 1899 Professor Edward Snyder, Professor of the German language and literature, *emeritus*, gave the University the sum of \$12,000, to be loaned to worthy students to enable them to finish their courses in the University.

By action of the Trustees, this fund is available for junior, senior, and graduate students who need aid to remain and complete their work. The minimum loan made is fifty dollars (\$50), and the maximum loan is one hundred and fifty dollars (\$150) to a junior, and two hundred dollars (\$200) to a senior or graduate student. Notes of hand are taken for the amount of the loans, with 5 per cent interest. The maximum time limit is three years for juniors, and two years from the ensuing thirtieth day of June for seniors and graduates.

Applications for loans are passed upon by the Council of Administration and approved by the Finance Committee of the Board of Trustees of the University.

Loans are made to matriculated students only who have attained at least the rank of full juniors, who have been in residence at this University at least one year, who are at the time students in residence at this University, and who have declared their intention to graduate.

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<sup>1</sup>See page 117.

In recommending loans preference is given to those students who are farthest along in their University work, who have shown themselves most assiduous and successful in their studies, and have shown habitual economy in life.

No distinction is made among students on account of sex or course of study.

A loan will not be recommended for any student who is believed to have been financially or morally delinquent in any respect.

Information given by applicants is considered confidential by the University authorities.

Applications for loans must be addressed to

THE PRESIDENT OF THE UNIVERSITY.

#### CLASS OF 1895 LOAN FUND

This is a fund of \$100.00 established by the class of 1895, to be loaned to needy and deserving students. According to the conditions of the gift, fifty dollars are to be loaned annually, and the benefit of the fund is open only to students who, at the time of application are members of the freshmen class only. No person may receive the benefit of the fund more than four years. The loan bears interest from the time the recipient leaves the University, and is due, one-half in five years, and one-half in six years, after matriculation. The management of the fund is in charge of the Council of Administration.

#### MILITARY SCIENCE

The military instruction is under the charge of an officer of the United States Army. The course as a whole has special reference to the duties of officers of the line. A full supply of arms and ammunition is furnished by the War Department, including 960 cadet rifles and accoutrements and two field pieces of artillery.

Every male student, under twenty-five years of age,

able to perform military duty, and not excused for sufficient cause, is required to drill twice each week until he has gained credit for 4 semester hours. He is also required to study Drill Regulations for Infantry and to recite upon the same once a week until he gains credit for one semester hour.

*On petition, properly approved, special students* may postpone their military for not more than two semesters. The practical instruction begins as soon as possible after he enters the University. An Academy student carrying no freshmen studies and not expecting to matriculate during the year is not permitted to drill. The standings in study and drill are placed on record, with other class credits; one semester of recitations and drill count two hours, and the three remaining semesters of drill three hours, and are requisite to graduation in every University course.

Appointments in the regiment are made on nomination by the officer in charge and confirmation by the Council.

The regiment (three battalions of four companies each) is composed mainly of the members of the freshmen and sophomore classes. The non-commissioned officers are usually selected from the sophomore class, the lieutenants from the junior class, and the field officers and captains from the senior class and graduate school.

A special military scholarship, good for one year, is open to each student who attains the grade of a commissioned officer, the value of which is paid the holder at the close of the year.

An artillery detachment is organized mainly from the second year, or sophomore class, which receives practical instruction twice each week during the college year.

Toward the close of the year a committee appointed by the Council examines candidates for nomination to the Governor of the state to receive commissions as brevet captains in the state militia. Candidates must be members of the senior class in full standing at the time of this ex-

amination; must have completed the course of military studies; must have served four semesters as commissioned officers, and must be approved by the Council as having good reputations as scholars, officers, and gentlemen.

The Trustees have prescribed a uniform of cadet gray, coat trimmed with black mohair braid, trousers with black cloth stripe, cut after the U. S. Army pattern.

In order that all uniforms worn at this University may be, in quality, make, and finish, in strict accordance with the specifications adopted by the Board of Trustees, all students enrolled in the military department are required to obtain them from that firm only that may, for the time being, be under agreement and bond with the Trustees to furnish said uniforms at a stated price and of standard quality.

The University Military Band is composed of students, and every full term of service therein is counted as one term of drill.

## PHYSICAL TRAINING

### For Men

The main object of the work of this department is to preserve and improve the bodily health of the students by careful physical examinations, and rational prescriptions of exercises; by correcting physical deformities and imperfect development; by teaching proper methods of living; and by encouraging proper intercollegiate sports.

Each student is required to undergo a physical examination so that a correct knowledge of his bodily condition may be obtained, and proper exercises prescribed. Regular classes are formed in swimming and fencing and for drill on the various gymnasium appliances. Lectures are given upon personal hygiene.

All competitive athletic games are under the direct supervision of the director of physical training, and his examination is required to show that membership on any

team will not cause injury, but will tend to improve the physical condition. No student whose class work is unsatisfactory is allowed to play on a University team.

#### For Women

The general health and development of the young women are carefully looked after by the Director of the Woman's Gymnasium. Each student is given an examination in order to ascertain her physical condition; suitable exercise is prescribed, and advice given.

The work of the gymnasium is adapted to meet individual needs by organized progressive training according to the best known methods. The work embraces corrective, hygienic and recreative exercise, including free and light gymnastics, marching, fancy steps, dumb-bells, clubs, wands, games, may-pole, basket-ball, swimming etc. Out-of-door sports—tennis, hockey and golf,—are played in their seasons.

The gymnasium is open at certain hours to all women of the University, under suitable restrictions.

The uniform consists of navy blue serge regulation gymnasium suit, and shoes.

For a description of the gymnasium and the out-of-door play grounds see page 51.

#### HOSPITAL ASSOCIATION

The Hospital Association is an organization of students to provide a fund for hospital care in case of sickness. The members of the association pay a fee of fifty cents each semester and the fund thus raised is used to pay the hospital expenses of members who may need such care. The fund is under the control of a committee of the Council, and during the past five years the association has rendered valuable aid to a considerable number of members. Students are strongly advised to join the association.

## SOCIETIES AND CLUBS

## LITERARY SOCIETIES

The ADELPHIC and PHILOMATHEAN societies for men, and the ALETHENAI and ILLIOLA for women, meet weekly, on Fridays, throughout term time.

## THE CHRISTIAN ASSOCIATIONS

The Young Men's and Young Women's Christian Associations have come to occupy a prominent place in the University life. Both are affiliated with the World's Student Christian Federation.

Six hundred and twenty-six men now belong to the Young Men's, and three hundred and seventy women to the Young Women's Association. Each association employs for full time a general secretary.

The Association House furnishes free for the use of all students reading room, library, parlors, piano, magazines and papers, correspondence tables, and telephone—a college home.

Religious meetings for men are held on Sunday mornings; for women on Thursday afternoons; and for both men and women on Monday evenings. There are frequent meetings for the promotion of social intercourse and good fellowship.

Courses in systematic Bible study and in modern missions are offered. During the year six hundred and twenty-five men and two hundred women have enrolled in these courses. A most helpful feature of the work is that in the interest of new students at the opening of the school year. Desirable rooms and boarding places are found and posted for reference at the Association House. Representatives of the Association meet the trains, assist students in finding satisfactory locations, and endeavor in every way to make them feel at home. The employment bureau helps to find work.

A copy of the Students' Hand-Book, containing a

map of the cities, and giving information about Urbana and Champaign, the University, and the various college organizations and activities, will be sent free to prospective students.

For this Hand-Book, or for further information, address the General Secretary of either Association.

## CLUBS AUXILIARY TO COURSES OF STUDY

### **AGRICULTURAL CLUB**

This club meets weekly. It is devoted to the discussion of topics of theoretical and practical interest to students of agriculture. All students connected with the University are eligible to membership.

### **ARCHITECTS' CLUB**

This club meets once in two weeks for the consideration of current topics of architectural interest and subjects connected with the study of architectural history. All students pursuing architectural studies are eligible to membership. This club is a member of the Architectural League of America, and contributes to its annual exhibition in the principal cities of the United States.

### **BIOLOGICAL THEORY CLUB**

This club meets on alternate Monday evenings throughout the college year for papers, addresses, and discussions on subjects in theoretical biology. Its membership is composed of instructors in biological subjects in the Colleges of Science and Agriculture.

### **CHEMICAL CLUB**

This club meets fortnightly and is open to all students in the Chemical Department. Its purpose is to foster a general interest in all subjects connected with the field of Chemistry.

A Chemical Society is also organized whose membership is confined to the instructional force and in the main the topics brought before the society consist of research papers. Seniors and other students working on research topics are invited to the meetings which occur once a month.

#### CIVIL ENGINEERING CLUB

This club meets on the second and fourth Friday evenings of each month for the reading and discussion of papers relating to civil engineering. All students pursuing the civil engineering course may become members.

#### COMMERCIAL CLUB

The Commercial Club is composed of students in the courses of training for business. It meets on alternate Tuesday evenings to hear addresses from practical business men and to discuss commercial topics.

#### ENGLISH CLUB

The English Club is composed of members of the Faculty, and of students who have done especially good work in English. The work of the club is confined to the study of recent writers of fiction and of poetry. The membership is limited to thirty. Meetings are held on the second Monday of each month.

#### FRENCH CLUB

*Le Cercle Francais* includes students who have had at least one year's work in French. The club meets twice a month throughout the year. Its proceedings are conducted in French, the object being to supplement the work of the class room by the practical handling and understanding of the language.

#### GERMAN CLUB

*Der Deutsche Verein* includes students who have pursued the study of German for two years, and others who

have a speaking knowledge of the language. Its proceedings are conducted entirely in German, meetings are held twice a month and programs of a literary, conversational, and musical nature are presented.

#### **HOUSEHOLD SCIENCE CLUB**

This club, which meets on alternate Wednesdays, is intended to foster general interest in household science. Its meetings are devoted to a discussion of topics relating to that subject.

#### **LIBRARY CLUB**

Any member of the staff of the University library, of the Champaign public library, or of the Urbana public library, or any student who is registered for the Library School may become an active member of the Library Club. Trustees of the three libraries before mentioned are considered honorary members. Any others interested in library progress may become associate members.

Meetings are held once in three weeks during the college year. The first and last meetings of the year are of a social nature. The intervening meetings are devoted to topics of literary or technical library interest.

#### **MATHEMATICAL CLUB**

The Mathematical Club is open for membership to the instructors and students of mathematics at the University. It meets once in two weeks to discuss questions of interest in pure and applied mathematics.

#### **MECHANICAL ENGINEERING CLUB**

This club meets on the second and fourth Friday evenings of each month. All students pursuing mechanical engineering studies are eligible to membership. Papers relating to subjects of interest to members are presented and discussed at each meeting.

#### **MUSICAL CLUBS**

These are described under the School of Music (p. 164).

**NATURAL HISTORY SOCIETY**

This society is composed of instructors and students interested in the natural sciences. It conducts field excursions and exhibitions of objects of natural history, and provides occasional lectures on science subjects of general interest.

**POLITICAL SCIENCE CLUB**

This club is composed of the members of the corps of instruction in history, economics, and law, and of such students of junior and senior standing as make a record for marked excellence in work in these departments. It meets once a month.

**SCANDINAVIAN CLUB**

The Scandinavian Club was organized in 1900 for the purpose of bringing together all students having a knowledge of at least one of the Scandinavian languages. Meetings are held during the academic year, at which subjects connected with the northern countries, especially with their literatures, are discussed.

**SOCIETY OF ELECTRICAL ENGINEERS**

The Society of Electrical Engineers has been organized to include students in electrical engineering or those specially interested in the work. They have meetings alternating with those of the Society of Mechanical Engineers.

**ZOOLOGICAL CLUB**

The University Zoölogical Club is composed of advanced students and instructors in the zoölogical and physiological departments, together with such other biological instructors and advanced students as are interested in its subjects. Its sessions are devoted to the presentation and discussion of abstracts of recent biological literature and of the results of investigation by the members of the club. It meets weekly in Natural History Hall.

EXPENSES

BOARD

The University does not furnish board. There are a large number of suitable private places in Urbana and Champaign, within walking distance of the University, and easily accessible by electric railway, where students can obtain table board and rooms. There are several students' clubs at which the cost of meals is about three dollars a week.

The Young Men's and Young Women's Christian Associations of the University will aid new students in procuring rooms and boarding places.

The University year is divided into semesters, each covering eighteen weeks of instruction, and fees are payable accordingly. There is a recess of two weeks at the Christmas holidays.

For dates of opening and closing, see Calendar, p. 7.

FEES

|   |         |
|---|---------|
| <i>Literary, Technological, Scientific, and Agricultural Departments</i>  |         |
| MATRICULATION FEE. Each student not holding a scholarship, upon satisfying the requirements for admission to the University, pays the matriculation fee of.....                           | \$10 00 |
| THE DIPLOMA FEE, payable before graduation, is.....   | 5 00    |
| THE INCIDENTAL FEE. All students, except those holding scholarships, pay, each semester, an incidental fee of.....  | 12 00   |
| TUITION FEE. Students "conditioned" on entrance requirements, and "special" students (see p. 85) except special students holding scholarships, pay, each semester, a tuition fee of ..... | 7 50    |

*Music Department*

Students who are residents of Illinois, including members of the Graduate School, will, if they are matriculated, pay for instruction in music of college grade the "incidental" fee only .....\$12 00

All other students receiving instruction in music of college grade and all students receiving instruction in music of preparatory grade, pay special fees as follows:

College. Preparatory.

|   |         |         |
|---|---------|---------|
| Piano, voice, or violin or other stringed instrument, two lessons a week, each semester.... | \$32 50 | \$19 50 |
| Same, one lesson a week .....   | 19 50   | 11 00   |
| Students in harmony, counterpoint, fugue, etc., pay each semester .....                     |         | 9 00    |

Lessons upon band instruments are classed as work of preparatory grade, and the preparatory fees are charged.

Use of piano for practice one hour per day, each semester....\$ 3 00

Additional hours at same rates.

[If students are regularly enrolled in other departments, the fees for college music are reduced to \$25.00 and \$15.00; and for preparatory music to \$15.00 and \$8.50, each semester.]

Special students, taking music only, may enter classes in

Physical Training (see p. 316) on paying each semester..\$ 7 50

No deduction is made on account of absence in any course, except in case of protracted illness.

*College of Law*

Students of the College of Law, upon satisfying the requirements for admission, pay the matriculation fee of.....\$10 00

Tuition fee, each semester .....

25 00

Students conditioned on entrance requirements pay, each semester, an additional fee of .....

7 50

LABORATORY FEES AND DEPOSITS. Each student working in laboratories, or in the drafting or engineering classes, is required to make a deposit varying from 50 cents to \$10.00, to pay for chemicals and apparatus used, and for any breakages or damages.

*College of Medicine*

|   |         |
|---|---------|
| Matriculation fee, paid each year .....                     | \$ 5 00 |
| General ticket, freshman and sophomore years.....           | 120 00  |
| General ticket, junior and senior years.....                | 140 00  |
| Laboratory deposit, freshman and sophomore years.....       | 20 00   |
| Laboratory deposit, junior year .....                       | 5 00    |
| Dissections, per part and County Hospital ticket, each..... | 5 00    |
| Maternity hospital fee, senior year.....                    | 15 00   |

*School of Dentistry*

|  |         |
|--|---------|
| Matriculation fee, each year .....             | \$ 5 00 |
| General ticket, each year .....                | 100 00  |
| Laboratory ticket, first and second years..... | 10 00   |
| Dissecting fee, first and second years .....   | 5 00    |
| Final examination fee, third year.....         | 20 00   |

*School of Pharmacy*

|                                     |          |
|-------------------------------------|----------|
| Tuition fee, each year .....        | \$ 75 00 |
| Laboratory deposit, each year ..... | 5 00     |
| Diploma fee .....                   | 5 00     |

*Academy*

|  |          |
|--|----------|
| All pupils in the Academy pay, each semester, an "incidental" fee of ..... | \$ 12 00 |
| Also a tuition fee of .....  | 7 50     |

ALL BILLS due the University are due and payable within ten days after the student enters classes.

**AVERAGE ANNUAL EXPENSES**

The following are for students attending at Urbana, estimated average annual expenses, *exclusive* of books, clothing, railroad fare, laboratory fees, if any, and small miscellaneous needs:

|   |                      |
|---|----------------------|
| <sup>1</sup> Semester fees .....                | \$ 24 00 to \$ 24 00 |
| Room rent for each student (two in room).....   | 36 00 " 60 00        |
| Table board in boarding houses and clubs.....   | 108 00 " 124 00      |
| Washing .....                                   | 18 00 " 24 00        |
| Total .....                                     | \$186 00 to \$232 00 |
| Board and room in private houses, per week..... | 4 50 " 6 00          |

<sup>1</sup>Students of law and music, special students, and pupils of the Academy must make needed charges in the amount given for "semester fees."

In addition to the above, freshmen pay a matriculation fee of \$10.00, and the young men are required to buy a cadet uniform at \$15.00. Freshmen engineering students will need to buy a set of drawing instruments at a cost of about \$18.00. Other necessary expenses will need to be taken into consideration. Three hundred and forty scholarships are offered each year. These cover the student's incidental fees and the matriculation fee. For all the necessary expenses of the year, the average student is not likely to live for less than \$275.00 or \$300.00.

#### **CAUTION TO PARENTS—STUDENTS' FUNDS**

The Chief Clerk of the Business Office will receive on deposit any funds parents may entrust to him to meet the expenses of their sons and daughters. No greater error can be committed than to send young people from home with large amounts of spending money, and without the authoritative care of some prudent friend. Half the dissipation in colleges springs from excessive allowances of money.

# ACADEMY

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## INSTRUCTORS

FRANK HAMSHER, A.B., PRINCIPAL, History.

MARGARET SCOTT, German and French.

JOSEPH H. GORDON, A.M., History and Mathematics.

JOHN T. JOHNSON, Natural Sciences.

FLORENCE M. SMITH, A.M., English Literature and Composition.

CHARLES W. WHITTEN, Physics and Geometry.

WILLIAM G. PALMER, A.M., Latin and Greek.

CHARLES M. McCONN, A.M., English and Composition.

CELIA A. DREW, PH.B., English and Composition.

ALBERT A. SOMERVILLE, B.S., Mathematics.

HARRY T. NIGHTINGALE, PH.B., History.

The Academy of the University of Illinois is a school maintained by the University to prepare students for entrance to its various colleges. It exists to meet the needs of the following classes of students: those from the country who have no high school opportunities at home; those whose home school offers but a two or three years' course; and, finally, those who have been delayed in their education and are unwilling to return to the high school to prepare for college. Because of its special purpose, and because of its close relationship with the University this school has peculiar advantages in preparing students for college. It has a corps of well trained and experienced instructors, and the standard of work required is high. The special ambition of the school is to

give its students that thorough preparatory training which is so essential to success in the later work of the college. While the Academy aims primarily to be an efficient preparatory school, its course of study is such that it offers to young men and women who do not intend to enter college an excellent training of high school grade.

### SPECIAL ADVANTAGES

To students who must go away from home to prepare for college the Academy offers peculiar advantages. The course of study includes only those subjects that may be offered for entrance, and students are not required to take any course that will not count for entrance to the college which he wishes to enter. No fixed time is set for the completion of the course, and when a student reaches the point where all of his time is not required to complete his work in the Academy, he is permitted to take up subjects belonging to his college course. In this way valuable time is often saved. It is of no little advantage also to a student that while he is preparing for college he may at the same time be learning much about the various departments of the University and what they offer. When he is ready to enter upon his regular college course, he is in a much better position to know definitely what course he wishes to pursue.

Young men and women who have not decided upon a college course, but wish at least a good high school education, will find in the Academy an excellent school for this purpose, and, in addition, may enjoy all of the general privileges and special opportunities of regular university students. One of the most valuable features of college life is the opportunity it offers to students to hear the many noted lecturers and musicians that visit the University from time to time. Academy students are also entitled to free use of the University library, and of the gymnasiums, of which there are two, one for men and one for women. Both are well supplied with ap-

paratus, swimming tank, shower baths, etc., and both offer class work in physical training under an expert instructor.

## ADMISSION

Graduates of the eighth grade of city public schools, or of graded county schools, will be admitted to the Academy without examination on the presentation of a diploma or certificate of graduation. Other applicants must pass an examination in Arithmetic, Grammar, Geography, and American History.

Students who come from accredited schools of the University will be admitted to advanced standing, receiving full credit for work already done. Blanks for reports from principals of accredited schools will be sent upon application.

Students who have been in attendance at other than accredited schools will be admitted on presenting a certificate showing the kind, amount, and grade of work already completed. A blank form for this statement will be sent on application. Upon the basis of this statement the student will be assigned to such classes as he seems prepared for. At the end of the first semester, if the student's work in the Academy has been satisfactory, the credits from the former school will be accepted in those subjects that have been continued in the Academy. For advanced credit in other subjects examinations must be passed. Those who wish to take examination for advanced credit in Physics, Chemistry, Botany, and Zoölogy must present a note book.

Examinations for admission to the Academy, and for advanced credit, will be held in the rooms of the school September 12-15, 1906. For a program of examinations, see page 84.

## COURSE OF STUDY

The course of study consists of the subjects included in the entrance requirements. A general statement of the

aim and scope of the work undertaken in the various subjects may be found on pages 77ff., under the title "Description of Subjects Accepted for Admission."

The time necessary to complete the entrance requirements is not fixed, but depends upon the ability and previous training of the student. When a student reaches the point that all of his time is not required for his entrance work, he is permitted to fill up his program of studies with classes in the University.

## COURSE OF INSTRUCTION

The course of instruction is so arranged that students may enter either semester, and is as follows:

FIRST SEMESTER.—<sup>1</sup>Algebra 1; Review Algebra; Plane Geometry 1; Plane Geometry 2; Solid Geometry; English 1; English 3; English 5; Latin 1; Latin 3; Latin 5; Greek 1; Greek 3; German 1; German 3; French 1; French 3; Physics 1; Zoölogy; Physiology; Art and Design 1; English History; Greek History; Modern History.

SECOND SEMESTER.—Algebra 1; Algebra 2; Plane Geometry 1; Plane Geometry 2; Solid Geometry; English 2; English 4; English 6; Latin 2; Latin 4; Latin 6; Greek 2; Greek 4; German 2; German 4; French 2; Physics 2; Physiography; Art and Design 1; Art and Design 2; Botany; American History; Roman History; Civics.

## REGULATIONS

Reports regarding students will be sent to parents at the close of each semester upon request.

The calendar of the Academy is the same as that of the University.

For further information about fees and expenses see page 358.

For special information with regard to the Academy of University of Illinois, address FRANK HAMSHER, Principal, Urbana, Ill.

<sup>1</sup>The figures 1, 2, 3, etc., following subjects indicate the first, second, etc., semesters of study of the several subjects; thus, French 1 means beginning French, French 3 the first semester of the second year's work in French.

# LIST OF STUDENTS

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## LITERARY, TECHNOLOGICAL, SCIENTIFIC, AND AGRICULTURAL DEPARTMENTS

### GRADUATE SCHOOL

#### CANDIDATES FOR THE DEGREE OF DOCTOR OF PHIL- OSOPHY

- Dickerson, Oliver Morton, A.M., 1904, *West Liberty*, History.  
Fox, Fred Gates, A.M., 1903, *Urbana*, English.  
Fox, Harry Bert, M.S., 1905, *Urbana*, An Investigation of Clays.  
Hamilton, Theodore Ely, A.M., (*Univ. of Mo.*), 1900, *Urbana*, Ro-  
manic Philosophy.  
Heuse, Edward Otto, B.S., (*Hanover Coll.*), 1901, *Greenville*, Chem-  
istry.  
Herron, Belva Mary, B.L., (*Univ. of Mich.*), 1889, *Mexico, Mo.*,  
Economics.  
Pillsbury, Bertha Marion, A.M., (*Radcliffe Coll.*), 1898, *Urbana*,  
English.  
<sup>1</sup>Ross, Luther Sherman, M.S., 1900, *Des Moines, Ia.*, Biology of  
Subterranean Crustaceans.  
Schulz, William Frederick, E.E., 1900, *Urbana*, Electrical Engineer-  
ing.  
Weld, Louis Dwight Harvell, A.B., (*Bowdoin Coll.*), 1905, *Hyde  
Park, Mass.*, Economics.  
<sup>1</sup>Wilson, Albert Harris, M.S., (*Vanderbilt Univ.*), 1893, *Champaign*,  
Mathematics.  
Woods, Herbert Spencer, A.M., (*Univ. of Mo.*), 1905, *Versailles,  
Mo.*, Organic Chemistry.

#### CANDIDATES FOR A MASTER'S DEGREE

- <sup>1</sup>Abrams, Duff A., B.S., 1905, *Murphysboro*, Civil Engineering.  
Akers, Milton Kent, B.S., 1905, *Urbana*, Electrical Engineering.  
Allen, Grace Matilda, A.B., 1905, *Wenona*, History.

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<sup>1</sup>In absentia, see p 15.

- <sup>1</sup>Armstrong, Charles Edward, B.S., 1905, *Danville*, Electrical Engineering.
- <sup>1</sup>Bailey, Walter Thomas, B.S., 1904, *Tuskegee, Ala.*, Architecture.
- <sup>1</sup>Barker, Perry, A.B., 1904, *Chicago*, Chemistry.
- Barrett, James Theophilus, A.B., 1903, *Urbana*, Botany.
- Bond, Anna Louise, A.B., 1903, *Mt. Vernon*, English.
- Boner, Halbert Evans, B.S., 1905, *El Paso*, Mechanical Engineering.
- Brown, Fay Cluff, A.B., (*Indiana Univ.*), 1904, *Washington Court House, O.*, Physics.
- <sup>1</sup>Buchanan, John Lee, B.S., 1904, *Schenectady, N. Y.*, Electrical Engineering.
- Bullard, Helen Elizabeth, A.B., 1905, *Springfield*, English.
- Bullock, Jessie Jane, A.B., 1900, *Champaign*, Mathematics.
- Burlison, William Leonidas, B.S., (*Univ. of Oklahoma*), 1906, *Stillwater, Okla.*, Agronomy.
- Carr, Maurice LeRoy, B.S., 1905, *Avon*, Electrical Engineering.
- <sup>1</sup>Church, Walter Samuel, B.S., 1900, *Chicago*, Architecture.
- Clark, Mary Edith, A.B., 1899, *Champaign*, Philosophy.
- Clark, William Arthur, A.B., 1905, *Urbana*, Medical.
- Clark, Samuel C, B.S., (*Univ. of Chicago*), 1900, *Urbana*, Chemistry.
- Converse, Edward Chapman, A.B., 1904, *Naperville*, Physics.
- Crane, Fred Randall, B.S., (*Mich. Agr'l Coll.*), 1899, *Urbana*, Architecture of Farm Buildings.
- <sup>1</sup>Crosthwait, George Ashley, B.S., 1903, *Moscow, Idaho*, Farm Management.
- De Motte, Ruby Thorne, A.B., 1902, *Boulder, Colo.*, Botany.
- <sup>1</sup>Derr, Henry Benjamin, B.S., 1905, *Danville*, Agronomy.
- Dietrich, William, B.S.A., (*Univ. of Wis.*), 1899, *Urbana*, Animal Husbandry.
- <sup>1</sup>Dillon, Gertrude Sempill, A.B., 1901, *Sheldon*, German.
- Emmett, Arthur Donaldson, B.S., 1901, *Urbana*, Chemistry.
- Emmons, Clyde Wilbert, A.B., (*Albion Coll.*), 1903, *Champaign*, Mathematics.
- Fath, Edward Arthur, B.S., (*Carleton Coll.*), 1902, *Muscatine, Ia.*, Astronomy.
- Flint, Paul Nelson, A.B., (*Mich. Agr'l Coll.*), 1904, *Cement City, Mich.*, Animal Husbandry.
- <sup>1</sup>Fountain, Sampson James, B.S., 1905, *Houston, Texas*, Architecture.
- Fritter, Enoch Abraham, A.M., (*Findlay Coll.*), 1898, *Normal*, English.

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<sup>1</sup>In absentia.

- <sup>1</sup>Fucik, Edward James, B.S., 1901, *Chicago*, Civil Engineering.
- <sup>1</sup>Gage, Ralph Hawes, B.S., 1903, *Chicago*, Civil Engineering.
- Gardner, Harry, B.S., (*Univ. of Wis.*), 1905, *Champaign*, Astronomy.
- <sup>1</sup>Gaston, Newton David, B.S., 1904, *Moline*, Mechanical Engineering.
- von Geller, Henry William, B.S.A., (*Mich. Agr'l Coll.*), 1904, *Chicago*, Soil Fertility.
- Gibbs, Charlotte Mitchell, A.B., 1904, *Champaign*, Household Science.
- Gilbert, John Philo, A.B., 1905, *Mt. Vernon*, Entomology.
- Good, Edwin Stanton, B.S., (*Mich. Agr'l Coll.*), 1903, *Urbana*, Animal Husbandry.
- <sup>1</sup>Greenman, Edwin Gardner, Jr., B.S., 1902, *Champaign*, Mechanical Engineering.
- Gustafson, John Christopher, B.S., 1905, *Chicago*, Architecture.
- <sup>1</sup>Gutmann, Ludwig, B.S., 1904, *Peoria*, Electrical Engineering.
- Hall, Louis Dixon, B.S., 1899, *Champaign*, Animal Husbandry.
- Harman, John James, B.S., 1902, *Champaign*, Mechanical Engineering.
- <sup>1</sup>Honens, Frederick William, B.S., 1896, *Sterling*, Civil Engineering.
- Hopper, Herbert Andrew, B.S.A., (*Cornell Univ.*), 1903, *Urbana*, Dairy Husbandry.
- <sup>1</sup>Hoppin, Charles Albert, B.S., 1901, *Milwaukee, Wis.*, Mechanical Engineering.
- <sup>1</sup>Ireland, Washington Parker, B.S., 1903, *Chicago*, Civil Engineering.
- <sup>1</sup>Johnson, Fred Vollentine, B.S., 1902, *Harvey*, Mechanical Engineering.
- <sup>1</sup>Johnson, Frederick Dawson, B.S., 1903, *Alton*, Mechanical Engineering.
- <sup>1</sup>Jones, Warren, A.B., 1902, *Aurora*, Education.
- <sup>1</sup>Kreisinger, Henry, B.S., 1904, *Chicago*, Mechanical Engineering.
- <sup>1</sup>Lake, Edward, John, B.S., 1895, *Champaign*, Architecture.
- Layton, Katherine Alberta, A.B., 1901, *Urbana*, German.
- Love, Harry Houser, B. S., (*Ill. Wesleyan Univ.*), 1904, *Urbana*, Agronomy.
- Malcolm, Charles Wesley, B.S., 1902, *Champaign*, Civil Engineering.
- <sup>1</sup>Massey, Esther, A.B., 1905, *Redfield, Minn.*, Latin.
- Matthews, Robert Clayton, B.S., 1902, *Champaign*, Mechanical Engineering.
- <sup>1</sup>Mayall, Edwin Lyman, B.S., 1900, *Peoria*, Mechanical Engineering.

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<sup>1</sup>In absentia.

- <sup>1</sup>Miller, Harry Crawford, *Nokomis*, Education.
- Moor, Rev. George Caleb, Ph.D., (*Ewing Coll.*), 1902, *Champaign*, English.
- Moorhouse, Llewellyn Alexander, B.S.A., (*Ont. Agr'l Coll.*), 1902, *Champaign*, Agronomy.
- Obrecht, Rufus Chancey, B.S.A., (*Iowa State Coll.*), 1901, *Urbana*, Animal Husbandry.
- Parker, Lawrence Gilbert, B.S., 1902, *Toluca*, Civil Engineering.
- Parks, Mrs. Allie V, A.B., 1905, *Urbana*, English.
- Pickett, Bethel Stewart, B.S.A., (*Ont. Agr'l Coll.*), 1904, *Guelph, Ont.*, Pomology.
- Pitts, Florence Elizabeth, A.B., 1904, *Bloomington*, English.
- Ponzer, Ernest William, B.S., 1900, *Champaign*, Mathematics.
- <sup>1</sup>Post, Raeburn Henry, B.S., 1904, *Champaign*, Mechanical Engineering.
- <sup>1</sup>Randall, Frank Alfred, B.S., 1905, *Chicago*, Civil Engineering.
- Reddick, Harry Wilfred, A.B., (*Indiana Univ.*), 1904, *Knightstown, Ind.*, Mathematics.
- <sup>1</sup>Ricker, Ethel, B.S., 1904, *Urbana*, Architecture.
- Risley, Walter John, B.S., (*Univ. of Mich.*), 1900, *Champaign*, Mathematics.
- Sawyer, George Loyal, B.S., 1903, *Chicago*, Municipal and Sanitary Engineering.
- Schumacher, Tillie Joe, A.B., 1902, *Champaign*, German.
- Schutt, Alfred George, B.S., 1905, *Belleville*, Civil Engineering.
- <sup>1</sup>Seibel, Karl Bird, A.B., 1904, *Chicago*, Rhetoric.
- <sup>1</sup>Seymour, Budd Willard, B.S., 1903, *Dwight*, Civil Engineering.
- <sup>1</sup>Sizer, Lucius Noyes, B.S., 1884, *Fisher*, Civil Engineering.
- <sup>1</sup>Skinner, Elgie Ray, B.S., 1903, *Chicago*, Mechanical Engineering.
- <sup>1</sup>Slocum, Roy Harley, B.S., 1900, *Urbana*, Municipal and Sanitary Engineering.
- Smith, Florence Mary, A.B., 1899, *Urbana*, English.
- <sup>1</sup>Smith, George Russell, B.S., 1900, *Urbana*, Mechanical Engineering.
- <sup>1</sup>Soverhill, Harvey Allen, B.S., 1900, *Beloit, Wis.*, Mechanical Engineering.
- Stark, Robert Watt, B.S., 1895, *Urbana*, Chemistry of Potable Waters.
- Stempel, Waldmar Matthaus, A.B., (*Indiana Univ.*), 1905, *Fort Madison, Ia.*, Physics.
- Stevens, Lucia Alzina, A.B., 1903, *Marengo*, English.

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<sup>1</sup>In absentia.

- <sup>1</sup>Stone, Mrs. Mildred Ann, A.B., 1903, *Bloomington*, Psychology.  
 Swanberg, Floyd Ludwig, B.S., 1902, *Danville*, Mechanical Engineering.  
 Taylor, Ruth Beatrice, A.B., 1905, *Champaign*, English.  
<sup>1</sup>Taylor, John Orlo, B.S., 1904, *Canal Zone, Panama*, Electrical Engineering.  
<sup>1</sup>Terry, Charles Dutton, B.S., 1897, *Kewanee*, Mechanical Engineering.  
<sup>1</sup>Thayer, William Sumner, B.S., 1905, *Cleveland, Ohio*, Electrical Engineering.  
 Thompson, James Arthur, B.S., 1905, *Rushville*, Soils.  
 Trimble, Clara Eugenia, A.B., 1904, *Tremont*, History.  
 Trowbridge, Perry Fox, A.M., (*Univ. of Mich.*), 1905, *Champaign*, Organic Chemistry.  
 Van Meter, Anna Roberta, A.B., 1905, *Urbana*, Household Science.  
<sup>1</sup>Viers, David Carroll, B.S., 1901, *Urbana*, Mechanical Engineering.  
<sup>1</sup>Webber, Pearl, A.B., 1903, *Urbana*, German.  
 Webber, Roy Irwin, B.S., (*Purdue Univ.*), 1899, *Urbana*, Civil Engineering.  
<sup>1</sup>Weeks, Harry William, A.B., B.S., (*Lombard Coll.*), 1900, (*Univ. of Ill.*), 1904, *Jackson, Mich.*, Mechanical Engineering.  
<sup>1</sup>Whitsitt, Hammond William, B.S., 1903, *Urbana*, Architecture.  
 Williams, Elrick, A.B., 1902, *Illioopolis*, Chemistry of Foods.  
 Williams, Mary Edith, A.B., 1904, *Urbana*, Education.  
 Willis, Clifford, B.S., 1900, *Urbana*, Entomology.  
 Wood, Harvey Edgerton, A.B., 1900, *Joliet*, Economics.  
 Wright, Sidney Walter, A.B., 1901, *Mechanicsburg*, History.

#### NOT CANDIDATES FOR A DEGREE

- Sparks, Marion Emeline, B.L.S., 1899, A.M., 1900, *Urbana*, Philosophy.  
 Voss, Sophie Mary, B.Mus., 1905, *Champaign*, Music.

#### SENIORS

In the list of undergraduates which follows, "L. and A." stands for College of Literature and Arts; "S" for the College of Science; "Agr." for College of Agriculture.

|                          |                     |                    |
|--------------------------|---------------------|--------------------|
| Adams, Leason Heberling, | <i>Taylorville,</i> | Chemical Eng'g.    |
| Allen, Edward Riley,     | <i>Pana,</i>        | Agriculture.       |
| Allinson, May,           | <i>Champaign,</i>   | General, L. and A. |

<sup>1</sup>In absentia.

|                                |                            |                         |
|--------------------------------|----------------------------|-------------------------|
| Allison, Harry Orson,          | <i>Alpha,</i>              | Agriculture.            |
| Allison, Ira Dent,             | <i>Alpha,</i>              | Agriculture.            |
| Alverson, Eva Luella,          | <i>Urbana,</i>             | General, L. and A.      |
| Amrine, Thomas Hamer,          | <i>Vermont,</i>            | Electrical Eng'g.       |
| Anderson, Augusta,             | <i>St. Paul, Neb.,</i>     | Library, 4th year.      |
| Andrew, Charles Edward,        | <i>Oregon,</i>             | Civil Eng'g.            |
| Applegate, Frank G,            | <i>Atlanta,</i>            | General, L. and A.      |
| Archer, Charley Lehman,        | <i>Carmi,</i>              | General, L. and A.      |
| Arizpe, Jesus de Valle,        | <i>Saltillo, Mexico,</i>   | Electrical Eng'g        |
| Armeling, Henry Richard,       | <i>Mason City,</i>         | Civil Eng'g.            |
| Armstrong, Gertrude Maud,      | <i>Champaign,</i>          | Education, L. and A.    |
| Atkinson, Helen Marie,         | <i>Champaign,</i>          | General, L. and A.      |
| Augustinus, Paul,              | <i>Evanston,</i>           | Electrical Eng'g.       |
| Austin, Clem C,                | <i>Streator,</i>           | General Science.        |
| Awsumb, George,                | <i>Eau Claire, Wis.,</i>   | Architecture.           |
| Bacon, Lewis Frank,            | <i>South Haven, Mich.,</i> | Mech. Eng'g.            |
| Baird, Grace Jean,             | <i>DeKalb,</i>             | Education, S.           |
| Baker, Eleanor Mary,           | <i>Champaign,</i>          | General, L. and A.      |
| Baldwin, Frank D,              | <i>Ipava,</i>              | Agriculture.            |
| Bannon, James Leo,             | <i>Joliet,</i>             | Civil Eng'g.            |
| Bard, Jacob William,           | <i>Quincy,</i>             | Electrical Eng'g.       |
| Barickman, Ralph Elvin,        | <i>Streator,</i>           | Electrical Eng'g        |
| Barr, Susan Jessie,            | <i>Urbana,</i>             | Household Science, Agr. |
| Barto, Daniel Otis,            | <i>Champaign,</i>          | Agriculture.            |
| Bates, Robert Paul,            | <i>Bloomington,</i>        | Civil Eng'g.            |
| Bauer, Effie Lucy,             | <i>Champaign,</i>          | General, L. and A.      |
| Baxter, Miles Emile,           | <i>Nauvoo,</i>             | Mechanical Eng'g.       |
| Bean, Elsie Margaret,          | <i>Blue Mound,</i>         | General, L. and A.      |
| Beauford, May Alice,           | <i>Oak Park,</i>           | General, L. and A.      |
| Bell, Clement Henry,           | <i>Pontiac,</i>            | Electrical Eng'g        |
| Bell, Marian Cinderella, A.B., |                            |                         |
| (Univ. of Neb.), 1904,         | <i>Monmouth,</i>           | Library, 5th year.      |
| Bench, Alfred Rittscher,       | <i>Galena,</i>             | Mechanical Eng'g.       |
| Bennett, Arthur Norton,        | <i>Chicago,</i>            | Chemical Eng'g.         |
| Bergert, Henry Amos,           | <i>Moline,</i>             | Electrical Eng'g.       |
| Blakely, Jane,                 | <i>Bloomington, Ind.,</i>  | Lib., 4th year.         |
| Bond, Lyda,                    | <i>Urbana,</i>             | Household Science, Agr. |
| Boone, Charles Guthrie,        | <i>Urbana,</i>             | Mechanical Eng'g.       |
| Bradley, Tirzah Ozilia,        | <i>Blue Mound,</i>         | General, L. and A.      |
| Brightman, Morgan Holmes,      | <i>Elgin,</i>              | Electrical Eng'g.       |

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|-------------------------------|--|
| Broadhead, Annie Maple, A.B., | 1902, <i>Normal</i> , General Science.     |
| Brown, Maudelle Tanner,       | <i>St. Louis, Mo.</i> , General, L. and A. |
| Brown, Paul Manley,           | <i>Tolono</i> , General, L. and A.         |
| Brown, Roy Hamlin,            | <i>Sycamour</i> , General, L. and A.       |
| Brown, William Edward,        | <i>Port Byron</i> , Architectural Eng'g.   |
| Brownson, Howard Gray,        | <i>Centralia</i> , General, L. and A.      |
| Brush, Daniel Harmon, Jr.,    | <i>Manila, P. I.</i> , Civil Eng'g.        |
| Bryan, Helen Gordon,          | <i>Champaign</i> , General, L. and A.      |
| Buellesfield, Henry,          | <i>LaSalle</i> , Education, L. and A.      |
| Bullard, Edwin Elliott,       | <i>Springfield</i> , Electrical Eng'g.     |
| Bumann, Cecil Spencer,        | <i>Champaign</i> , Civil Eng'g.            |
| Burnside, Elizabeth Helen,    | <i>Oskaloosa, Ia.</i> , Library, 4th year. |
| Burwash, Lois Irene,          | <i>Champaign</i> , General Science         |
| Bush, James Ackerman,         | <i>Chicago</i> , Agriculture               |
| Butzow, Louis James,          | <i>St. Joseph</i> , Electrical Eng'g.      |
| Carey, Alice,                 | <i>La Grange</i> , General, L. and A.      |
| Carr, Flora Fay,              | <i>Saginaw, Mich.</i> , Library, 4th year. |
| Carter, Allan John,           | <i>Chicago</i> , General, L. and A.        |
| Case, Montgomery Babcock,     | <i>Peoria</i> , Civil Eng'g.               |
| Cass, Sherman,                | <i>Cerro Gordo</i> , General Science.      |
| Cavins, Lorimer Victor,       | <i>Mattoon</i> , General, L. and A.        |
| Chambers, Ralph Edward,       | <i>Sadorus</i> , Agriculture               |
| Chapin, George,               | <i>Champaign</i> , Business, L. and A.     |
| Clark, John Ruskin,           | <i>Carthage</i> , General, L. and A.       |
| Cleary, James Mansfield,      | <i>Chicago</i> , General, L. and A.        |
| Close, George Frederick,      | <i>Aledo</i> , General, L. and A.          |
| Coffey, Walter Castillia,     | <i>Rugby, Ind.</i> , Agriculture           |
| Cole, Alice Maude,            | <i>Ottawa</i> , General, L. and A.         |
| Comstock, Arthur Francis,     | <i>Joliet</i> , Civil Eng'g.               |
| Conard, Sarah Orvilla,        | <i>Monticello</i> , General, L. and A.     |
| Cone, Wilbur Charles,         | <i>Loda</i> , Mechanical Eng'g.            |
| Cook, Louis Phillip,          | <i>Quincy</i> , Electrical Eng'g.          |
| Cornell, Dick Hadwin,         | <i>Cornell</i> , Electrical Eng'g.         |
| Corrigan, Edward,             | <i>New Berlin</i> , Business, L. and A.    |
| Craig, Jennie Adah,           | <i>Champaign</i> , General, L. and A.      |
| Craig, Stephen James,         | <i>Wilmington</i> , Agriculture            |
| Currie, Florence Baxter,      | <i>Milwaukee, Wis.</i> , Lib., 5th year.   |
| Cutler, Asa Bryant,           | <i>Rockford</i> , Municipal Eng'g.         |
| Dallenbach, J C,              | <i>Champaign</i> , General, S.             |
| Davis, Olive Ermengarde,      | <i>Oak Park</i> , Library, 5th year.       |
| Davis, Ralph Richard,         | <i>Centralia</i> , General, L. and A.      |

|                                 |                               |                      |
|---------------------------------|-------------------------------|----------------------|
| Deason, Francis Ellery,         | <i>Murphysboro,</i>           | Agriculture.         |
| DePuy, Jessie Maude,            | <i>Urbana,</i>                | General, L. and A.   |
| DePuy, Orval Carl,              | <i>Urbana,</i>                | General, L. and A.   |
| Derby, Grace Emily, A.B.,       |                               |                      |
| ( <i>Western Coll.</i> ), 1905, | <i>Lawrence, Kas.,</i>        | Lib., 4th year.      |
| Derwent, Everett Foster,        | <i>Rockford,</i>              | Civil Eng'g          |
| Dewey, Homer Harry,             | <i>Henry,</i>                 | General, L. and A.   |
| DeWitt, Louise Elizabeth,       | <i>La Grange,</i>             | General, L. and A.   |
| Dickson, Helen Sarah.           | <i>Champaign,</i>             | Library, 5th year.   |
| Dillon, Fred Paul,              | <i>Chicago,</i>               | Civil Eng'g.         |
| Dixon, Frank Eugene,            | <i>Ambia, Ind.,</i>           | Electrical Eng'g.    |
| Donoghue, George Terry,         | <i>Chicago,</i>               | Civil Eng'g          |
| Dool, Robert Beatty,            | <i>Aledo,</i>                 | Electrical Eng'g.    |
| Doran, Edwin Beall,             | <i>Champaign,</i>             | Agriculture.         |
| Doughty, Ivan Fremont,          | <i>Westville,</i>             | Civil Eng'g.         |
| Drew, Don John Charles,         | <i>Watseka,</i>               | Electrical Eng'g     |
| Dugan, Earl N,                  | <i>Perry, Ia.,</i>            | Architecture.        |
| Dunlap, Albert Menzo,           | <i>Savoy,</i>                 | Medical              |
| Dunn, Joel Ernest,              | <i>Fordyce,</i>               | Civil Eng'g          |
| Durfee, John Henry,             | <i>Central Bridge, N. Y.,</i> | Electrical Eng'g.    |
|                                 | <i>Chicago,</i>               | General, L. and A.   |
| Dymond, Lida Eliza,             | <i>Granville,</i>             | Agriculture.         |
| Dysart, John Padden,            | <i>Aledo,</i>                 | Mechanical Eng'g.    |
| Edwards, John Isaac,            | <i>Sparta,</i>                | Civil Eng'g.         |
| Eiker, William Henry,           | <i>Vincennes, Ind.,</i>       | General Science      |
| Ellis, Max Mapes,               | <i>Rockford,</i>              | Electrical Eng'g     |
| Emerson, Frederic Hood,         | <i>Decorah, Ia.,</i>          | Civil Eng'g.         |
| Enger, Melvin Lorenius,         | <i>Decorah, Ia.,</i>          | Civil Eng'g.         |
| Enger, Norval,                  | <i>Farmer City,</i>           | General, L. and A.   |
| Erickson, Cecil Claire,         | <i>Streator,</i>              | General, L. and A.   |
| Essington, Thurlow Gault,       | <i>Springfield,</i>           | Mechanical Eng'g.    |
| Evans, Robin Mills,             | <i>Arcola,</i>                | Medical              |
| Ewing, Henry Ellsworth,         | <i>Lake Mills, Wis.,</i>      | Lib., 5th year.      |
| Fargo, Mattie Pauline,          | <i>Chicago Heights,</i>       | Lib., 4th year.      |
| Feind, Frances Marguerite,      | <i>Warrensburg,</i>           | Mechanical Eng'g.    |
| Ferry, Leroy Clark,             | <i>Pittsburg, Pa.,</i>        | Library, 4th year.   |
| Fetterman, Valeria Johnston,    | <i>Quincy,</i>                | Architectural Eng'g. |
| Flowers, Roy Warner,            | <i>Chicago,</i>               | Library, 5th year    |
| Forrest, Elizabeth,             | <i>Chicago,</i>               | Mechanical Eng'g.    |
| Franklin, Howard Bruce,         | <i>Chicago,</i>               | Civil Eng'g.         |
| Frost, John Henry,              |                               |                      |

|  |                               |                     |
|--|-------------------------------|---------------------|
| Fucik, John, Jr.,  | <i>Chicago,</i>               | Civil Eng'g.        |
| Galloway, William James,                                       | <i>Deerfield,</i>             | Mechanical Eng'g.   |
| Gambach, Jacob,  | <i>Hecker,</i>                | General, L. and A.  |
| Gardner, Bradley Charles,                                      | <i>Chicago,</i>               | Chemistry.          |
| Garwood, Mabel Clare,  | <i>Augusta,</i>               | General, L. and A.  |
| Gill, Frederick William,                                       | <i>Rock City Falls, N.Y.,</i> | Chemistry.          |
| Glass, John Burr,  | <i>Taylorville,</i>           | Mechanical Eng'g.   |
| Graff Elizabeth,   | <i>Champaign,</i>             | General, L. and A.  |
| Graham, Douglas Basil Adair,                                   | <i>Riverside,</i>             | Municipal Eng'g.    |
| Grandpré, Ambrose Goulet,                                      | <i>Chicago,</i>               | Civil Eng'g.        |
| Grauten, Sylvester Henry,                                      | <i>Chicago,</i>               | Mechanical Eng'g.   |
| Gray, Lily, A.B., ( <i>Univ. of</i><br><i>Chicago</i> ), 1876, | <i>Chicago,</i>               | Library, 5th year.  |
| Gregory, Walter Herbert,                                       | <i>Moweaqua,</i>              | General, L. and A.  |
| Grigsby, Harry Davett,   | <i>Peoria,</i>                | Chemistry.          |
| Haase, Herbert Emil,   | <i>Oak Park,</i>              | Municipal Eng'g.    |
| Hachmeister, Henry William,                                    | <i>Chicago,</i>               | Chemical Eng'g.     |
| Hall, Ellis Bernard,   | <i>Urbana,</i>                | Chemistry.          |
| Hall, Grace Evalyn,  | <i>Urbana,</i>                | General, L. and A.  |
| Hamm, Ira Lewis,   | <i>Champaign,</i>             | Agriculture         |
| Hegnauer, Leonard, A. B.,<br>( <i>Univ. of Kas.</i> ), 1900,   | <i>Prairie City, Mo.,</i>     | Agriculture.        |
| Hellmann, Carl August,   | <i>Chicago,</i>               | Electrical Eng'g.   |
| Henderson, Charles Elliott,                                    | <i>Champaign,</i>             | Civil Eng'g.        |
| Henning, Warren Kenyon,  | <i>Plano,</i>                 | Mechanical Eng'g.   |
| Henry, John Earl,  | <i>Tippecanoe City, O.,</i>   | Architecture.       |
| Hewes, Clarence Avise,   | <i>Quincy,</i>                | Civil Eng'g.        |
| Hewes, Floyd Sinnock,  | <i>Quincy,</i>                | Civil Eng'g.        |
| Hoff, Leigh Patridge,  | <i>Chicago Heights,</i>       | Electrical Eng'g.   |
| Holl, Charles Ludwig,  | <i>Streator,</i>              | Mechanical Eng'g.   |
| Hook, Henry Hudson,  | <i>Vienna,</i>                | Railway Eng'g.      |
| Hopkins, Ruby Clar,  | <i>Granville,</i>             | General, L. and A.  |
| Houchens, Josie Batchelor,<br>B.L.S., 1905,                    | <i>New Orleans, La.,</i>      | General, L. and A.  |
| Howe, Paul Edward,   | <i>Urbana,</i>                | Chemical Eng'g.     |
| Hubbart, Guy,  | <i>Philo,</i>                 | Business, L. and A. |
| Hughes, Harold DeMotte,  | <i>Antioch,</i>               | Agriculture.        |
| Hulteen, Victor Emanuel,                                       | <i>Buda,</i>                  | Mechanical Eng'g.   |
| Humphreys, Harry Paul,   | <i>Atkinson,</i>              | Mechanical Eng'g.   |
| Hunt, E Glenne,  | <i>Dana, Ind.,</i>            | General, L. and A.  |
| Jackson, Litta Dustin,   | <i>Clinton, Ia.,</i>          | General, L. and A.  |

|                                       |                        |                         |
|---------------------------------------|------------------------|-------------------------|
| Jacobsen, Noah Henning,               | Urbana,                | Civil Eng'g.            |
| James, Herman Gerlach,                | Urbana,                | General, L. and A.      |
| James, Leonard Vaughan,               | Amboy,                 | Electrical Eng'g.       |
| Johnson, Alice Sarah,                 | Champaign,             | Library, 4th year.      |
| Johnson, George Thompson,             | Champaign,             | Medical.                |
| Johnson, John Thomas,                 | Urbana,                | General, L. and A.      |
| Johnson, Riley Oren,                  | Hindsboro,             | General Science.        |
| Jordan, John Garfield,                | Savoy,                 | Electrical Eng'g.       |
| Kanne, Walter John,                   | Waterville, Minn.,     | Mech. Eng'g.            |
| Kays, Marion Reed,                    | Phoenix, Ariz.,        | Civil Eng'g.            |
| Keator, Jeannette,                    | Polo,                  | General, L. and A.      |
| Kelley, Grace Osgood, B.L.S.,         |                        |                         |
|                                       | 1903, Muskegon, Mich., | Gen'l, L. and A.        |
| Kemp, Jacob Garrett,                  | Baltimore, Md.,        | Physics.                |
| Kennedy, Jane, A.B., ( <i>Farmers</i> |                        |                         |
| <i>Coll.</i> ), O., 1887,             | Norwood, O.,           | Library, 4th year.      |
| Kidder, Albert Franklin,              | Farmington,            | Agriculture.            |
| Kidder, Mrs. Ida Angeline,            | Cedar Rapids, Ia.,     |                         |
| A.B., 1905,                           |                        | Library, 5th year.      |
| Kilner, Louise Millicent,             | Chicago,               | General, L. and A.      |
| Kimball, Robert Haskell,              | Rockford,              | Business, L. and A.     |
| Kirkpatrick, John Wilson,             | Urbana,                | Medical.                |
| Klein, David,                         | Chicago,               | Chemistry.              |
| Kline, William Gordon,                | Amboy,                 | General, L. and A.      |
| Knorr, Louis Salliday,                | Chicago,               | Municipal Eng'g.        |
| Kolker, Katherine Joan,               | Quincy,                | General, L. and A.      |
| Kunkle, Roy Delos,                    | Peoria,                | Mechanical Eng'g.       |
| Laidlaw, Elizabeth Sophronia,         | Harrold, S. D.,        | Library, 5th year.      |
| Lanham, Mariam Elizabeth,             | Osceola, Ia.,          | Medical.                |
| Lapham, Ina Oliva,                    | Champaign,             | General, L. and A.      |
| Larson, Charles Andrew,               | Paxton,                | Mechanical Eng'g.       |
| Latzer, Lenore Lydia,                 | Highland,              | General Science.        |
| Laycock, Mary Janet,                  | Waverly,               | General Science.        |
| Leonard, Edith,                       | Urbana,                | Architecture.           |
| Lewis, Burt A.,                       | Osage, Ia.,            | Architectural Eng'g.    |
| Lewis, Lucy Mae,                      | Pomona, Cal.,          | Library, 5th year.      |
| Little, Charles Edwin,                | Sycamore,              | Mechanical Eng'g.       |
| Llewellyn, Clarinne,                  | La Grange,             | General Science.        |
| Llewellyn, Ralph Corson,              | La Grange,             | Architectural Eng'g.    |
| Logan, Winnie Alice,                  | Edinburg,              | Household Science, Agr. |
| Long, Roy Harold,                     | Lexington,             | Agriculture.            |
| Lull, Sara Louise,                    | Evanston,              | Library, 4th year.      |

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|--------------------------------------|-------------------------|------------------------------|
| McCoy, Joseph,                       | <i>Lafayette, Ind.,</i> | Architecture.                |
| McCully, Clinton Thomas,             | <i>Champaign,</i>       | General, L. and A.           |
| McIntire, Mamie Minerva,             | <i>Urbana,</i>          | General, L. and A.           |
| Mack, Louis William,                 | <i>Chicago,</i>         | General, L. and A.           |
| McKelvey, Frank Hotchkiss,           | <i>Sparta,</i>          | Agriculture.                 |
| McKnight, Elizabeth Belle,           |                         |                              |
| A.B. ( <i>Wilson Coll.</i> ), 1905,  | <i>Chicago,</i>         | Library, 4th year.           |
| McMahon, Eva Isabelle,               | <i>Maywood,</i>         | Library, 4th year.           |
| Main, Roscoe Conkling,               | <i>Pittsfield,</i>      | Medical.                     |
| Mann, Kate Bonnell,                  | <i>Muskegon, Mich.,</i> | Gen'l, L. and A.             |
| Marsh, Charles Mason,                | <i>Upper Alton,</i>     | General, L. and A.           |
| Marshall, Reuben S,                  | <i>Mt. Morris,</i>      | Electrical Eng'g.            |
| Mather, Jane Maria,                  | <i>Plainfield,</i>      |                              |
|                                      |                         | Household Science, L. and A. |
| Maxey, Mima Agnes,                   | <i>Carlyle,</i>         | General, L. and A.           |
| Meharry, Edwin Thomas,               | <i>Tolono,</i>          | Agriculture.                 |
| Meharry, George Francis, A.B.,       |                         |                              |
| 1905,                                | <i>Tolono,</i>          | Agriculture.                 |
| Mehren, Edward John, A.B.,           |                         |                              |
| ( <i>St. Ignatius Coll.</i> ), 1901, | <i>Chicago,</i>         | Civil Eng'g.                 |
| Meissner, Josephine Augusta,         | <i>York, Neb.,</i>      | Library, 5th year.           |
| Melvin, Leon Russell,                | <i>Greenfield,</i>      | Agriculture.                 |
| Miller, Daisy Mary,                  | <i>Urbana,</i>          | Household Science, Agr.      |
| Miller, Donald S,                    | <i>Geneva,</i>          | Chemical Eng'g.              |
| Miner, J Howard,                     | <i>Adair,</i>           | Agriculture.                 |
| Mohr, Esther Cook,                   | <i>Dwight,</i>          | Education, L. and A.         |
| Moore, Francis Guy,                  | <i>Bloomington,</i>     | Mechanical Eng'g.            |
| Morgan, Edgar A,                     | <i>Jewett,</i>          | Education, L. and A.         |
| Morgan, Horace Healy,                | <i>Loda,</i>            | Mechanical Eng'g.            |
| Morton, James Harrison,              | <i>Kewanee,</i>         | Education, L. and A.         |
| Mosiman, Levi,                       | <i>Morton,</i>          | Electrical Eng'g.            |
| Mulberry, Grace Pearl,               | <i>Taylorville,</i>     | General, L. and A.           |
| Myers, Henry Beck,                   | <i>Springfield,</i>     | Civil Eng'g.                 |
| Nason, Sabra Levantia, B.L.,         |                         |                              |
| ( <i>Carleton Coll.</i> ), 1900,     | <i>Superior, Wis.,</i>  | Library, 4th year.           |
| Neu, Clarence Leonard,               | <i>Chicago,</i>         | General, L. and A.           |
| Nichol, Agnes Elaine,                | <i>Urbana,</i>          | Library, 4th year.           |
| Nichols, Marvin Arthur,              | <i>Yorkville,</i>       | General Science.             |
| *North, Howard Peter,                | <i>El Paso,</i>         | Civil Eng'g.                 |
| Norton, Carrie Belle,                | <i>Urbana,</i>          | General, L. and A.           |
| Nutting, Harry George Dallas,        | <i>Rock Island,</i>     | Mechanical Eng'g.            |

\*Deceased.

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| O'Brien, Myra Belle,                   | <i>San Jose, Cal.,</i>      | Library, 4th year.   |
| Oldefest, Edward George,               | <i>Moline,</i>              | Architecture         |
| Orr, Gertrude Crane, Ph.B.,            |                             |                      |
| ( <i>Univ. of Wooster.</i> ) 1905,     | <i>Wooster, Ohio,</i>       | Library, 4th year.   |
| Page, Carlos Merriam,                  | <i>West Hope, N. Dak.,</i>  |                      |
|  |                             | Mechanical Eng'g.    |
| Palmer, Ann Adelia,                    | <i>Monticello,</i>          | General, L. and A.   |
| Parcel, John Ira, A.B., ( <i>West-</i> |                             |                      |
| <i>field Coll.</i> ), 1903,            | <i>Westfield,</i>           | Civil Eng'g.         |
| Parr, Rosalie Mary,                    | <i>Mapleton,</i>            | General, L. and A.   |
| Peebles, Thomas,                       | <i>Naperville,</i>          | Mechanical Eng'g.    |
| Pepper, Curtis Gordon,                 | <i>Champaign,</i>           | Mechanical Eng'g.    |
| Percival, Avis Hortense,               | <i>Urbana,</i>              | General, L. and A.   |
| Phillips, Lydia Ann,                   | <i>Columbus, O.,</i>        | Library, 4th year.   |
| Phipps, Thomas Elmer,                  | <i>Janesville,</i>          | Civil Eng'g.         |
| Poirot, Aloys Phillip,                 | <i>Belleville,</i>          | Civil Eng'g.         |
| Pollard, Willard Lacy,                 | <i>Monmouth,</i>            | Mechanical Eng'g.    |
| Porter, James Albert,                  | <i>Arcola,</i>              | General, L. and A.   |
| Porterfield, N Raymond,                | <i>Fairmount,</i>           | Civil Eng'g.         |
| Post, Royal Elmer,                     | <i>Rochester, N. Y.,</i>    | Civil Eng'g.         |
| Powell, Jessie Alexander,              | <i>Corydon, Ky.,</i>        | General, L. and A.   |
| Pray, Ralph Marble,                    | <i>Chicago,</i>             | Business, L. and A.  |
| Pricer, John Lossen,                   | <i>El Paso,</i>             | Education, L. and A. |
| Putting, Oscar John,                   | <i>Springfield,</i>         | General, L. and A.   |
| Rapp, Charles Edward,                  | <i>Jacksonville,</i>        | Civil Eng'g.         |
| Ray, Howard Alden,                     | <i>Libertyville,</i>        | General, L. and A.   |
| Rein, Lester Edward,                   | <i>Chicago,</i>             | Municipal Eng'g.     |
| Rich, Charles Clyde,                   | <i>Washington,</i>          | Architecture.        |
| Richardson, Mabel Kingsley,            | <i>Vermillion, S. Dak.,</i> |                      |
|  |                             | Library, 4th year.   |
| Risser, Ruby Blanche,                  | <i>Blandinsville,</i>       | General, L. and A.   |
| Robert, Louis Paul,                    | <i>Lacon,</i>               | Mechanical Eng'g.    |
| Robert, Miriam Ellen,                  | <i>Ottawa,</i>              | General, L. and A.   |
| Roberts, Kathleen Alice,               | <i>Champaign,</i>           | General, L. and A.   |
| Robinson, Candace Ione,                | <i>Granville,</i>           | General, L. and A.   |
| Robinson, Harrison Franklin,           | <i>Mattoon,</i>             | Architecture         |
| Robinson, Ward Reid,                   | <i>Springfield,</i>         | Civil Eng'g.         |
| Rodriguez, Roberto Segundo,            | <i>Saltillo, Mexico,</i>    |                      |
|  |                             | Architectural Eng'g. |
| Rogers, Edith,                         | <i>Windsor,</i>             | General, L. and A.   |
| Rump, Charlie Albert,                  | <i>Quincy,</i>              | Civil Eng'g.         |
| Rutledge, Bertha,                      | <i>LeRoy,</i>               | General, L. and A.   |

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|--|---------------------------|----------------------|
| Saathoff, George Webster,                                      | <i>Litchfield,</i>        | Electrical Eng'g.    |
| Sanford, Edwin William,  | <i>Moline,</i>            | Civil Eng'g.         |
| Schmahl, Myron Roy,  | <i>Aurora,</i>            | Electrical Eng'g.    |
| Schoeller, Julius Ernest,                                      | <i>Chicago,</i>           | Civil Eng'g.         |
| Seavert, Norman Edward,  | <i>Chicago,</i>           | Civil Eng'g.         |
| Shaffer, Nina Rebecca,   | <i>Iowa City, Ia.,</i>    | Library, 4th year.   |
| Shilton, Paul Adyman,  | <i>Kewanee,</i>           | Business, L. and A.  |
| Shinn, William Ricketts,                                       | <i>Mattoon,</i>           | Agriculture.         |
| Slater, Willis Appleford,                                      | <i>Polo,</i>              | Municipal Eng'g.     |
| Slocum, Fielder,   | <i>Urbana,</i>            | Mechanical Eng'g.    |
| Smith, Alfred Glaze,   | <i>Champaign,</i>         | Agriculture.         |
| Smith, Erasmus Edward,   | <i>Modena,</i>            | Business, L. and A.  |
| Smith, Russell Nellis,   | <i>Abingdon,</i>          | General, L. and A.   |
| Snider, Earl Quinter,  | <i>Urbana,</i>            | General Science.     |
| Snow, Louis Frederick,   | <i>Chadwick,</i>          | Chemistry.           |
| Snushall, Mrs. Mary Butters<br>McLellan,                       | <i>Hyde Park, Mass.,</i>  | Library, 4th year.   |
| Sommer, Alfred,  | <i>Chicago,</i>           | Mechanical Eng'g.    |
| Spray, Edith Lillian,  | <i>Arlington Heights,</i> | Library, 4th year.   |
| Stanley, Edgar Albert,   | <i>Ashtabula, Ohio,</i>   | Architecture         |
| Steddom, Susan Wright, Ph.D.,<br>( <i>Penn Coll.</i> ), 1892., | <i>Oskaloosa, Ia.,</i>    | Library, 4th year.   |
| Stevens, Sabra Elizabeth,                                      | <i>Mahomet,</i>           | General, L. and A.   |
| Strauch, Oswald Frederick,                                     | <i>Chadwick,</i>          | Mechanical Eng'g.    |
| Strawn, Myrtle,  | <i>Albion,</i>            | General, L. and A.   |
| Stromberg, Julian Willis,                                      | <i>Chicago,</i>           | Civil Eng'g.         |
| Strong, Ralph Stillman,  | <i>Chicago,</i>           | Mechanical Eng'g.    |
| Suttle, Clifford Bradley,                                      | <i>Kenney,</i>            | Civil Eng'g.         |
| Swart, Harmon Veeder,  | <i>Kewanee,</i>           | Mechanical Eng'g.    |
| Thomas, Moses Edgar,   | <i>Homer,</i>             | Civil Eng'g.         |
| Thompson, Estelle,   | <i>Findlay,</i>           | General, L. and A.   |
| Tobie, Rev. Willard Nathan,                                    | <i>Urbana,</i>            | General, L. and A.   |
| Tomlinson, Ben,  | <i>Champaign,</i>         | General, L. and A.   |
| Toops, George Noble,   | <i>Champaign,</i>         | Civil Eng'g.         |
| Towle, Almon Ira,  | <i>Peoria,</i>            | Mechanical Eng'g.    |
| Trimble, Mary Lillian.   | <i>Champaign,</i>         | General, L. and A.   |
| Turell, Vera,  | <i>Champaign,</i>         | General, L. and A.   |
| Turner, Dollie Irene,  | <i>Urbana,</i>            | General, L. and A.   |
| Van Meter, Helen Jane,   | <i>Urbana,</i>            | Architectural Eng'g. |

|                                    |                      |                       |
|------------------------------------|----------------------|-----------------------|
| Waldo, Karl Douglas,               | <i>Rockford,</i>     | General, L. and A.    |
| Walsh, Edward Rodney,              | <i>Elgin,</i>        | Civil Eng'g           |
| Wamsley, Mable,                    | <i>Mattoon,</i>      | General, L. and A.    |
| Warder, Walter Bain,               | <i>Cairo,</i>        | General, L. and A.    |
| Warner, Florence,                  | <i>Prophetstown,</i> | Library, 4th year.    |
| Washburn, Charles Alva,            | <i>Fairmount,</i>    | Mechanical Eng'g.     |
| Watkins, Oscar S,                  | <i>Danville,</i>     | Chemistry.            |
| Weaver, Herbert Joseph,            | <i>Oak Park,</i>     | Electrical Eng'g      |
| Webb, Anna Van Deren,              | <i>Charleston,</i>   | Education, L. and A.  |
| Webster, Roy Franklin,             | <i>Nokomis,</i>      | Education, L. and A.  |
| Webster, Samuel Harvey, A.B.,      |                      |                       |
| ( <i>Waynesburg Coll.</i> ), 1893, | <i>Rutan, Pa.,</i>   | Civil Eng'g.          |
| Weilepp, Leila Maude,              | <i>Cisco,</i>        | Library, 5th year.    |
| Wells, Reginald Ellis,             | <i>Champaign,</i>    | Mechanical Eng'g.     |
| Wheeler, Mary Margaret,            | <i>Grant Park,</i>   | Medical.              |
| Whipple, Robert Hoadley,           | <i>Rockford,</i>     | Civil Eng'g           |
| White, Edna Noble,                 | <i>Fairmount,</i>    | Household Science, S. |
| White, Mahala Jane,                | <i>Charleston,</i>   | General, L. and A.    |
| Whitten, Charles William,          | <i>Urbana,</i>       | General, L. and A.    |
| Wilkinson, Laurance Edar,          | <i>Champaign,</i>    | Architecture.         |
| Williams, Clement Clarence,        | <i>Banner,</i>       | Civil Eng'g.          |
| Wilson, Bess Everett,              | <i>Chicago,</i>      | Library, 4th year.    |
| Wise, Leonard, E,                  | <i>Cerro Gordo,</i>  | Agriculture.          |
| Wood, Lewis Hungerford,            | <i>Oak Park,</i>     | Mechanical Eng'g.     |
| Woodin, Earle Belmont,             | <i>St. Joseph,</i>   | Civil Eng'g.          |
| Woolman, Xenia May,                | <i>Urbana,</i>       | General, L. and A.    |
| Wooster, Lawrence Fisher,          | <i>Litchfield,</i>   | Electrical Eng'g      |
| Wright, Herman Festues,            | <i>Vienna,</i>       | Agriculture.          |
| Wyeth, Ola May, A.B.,              |                      |                       |
| ( <i>Cornell Univ.</i> ), 1904,    | <i>Charleston,</i>   | Library, 5th year.    |
| Yates, Thomas,                     | <i>Chicago,</i>      | Civil Eng'g.          |
| Zelenka, Joseph James,             | <i>Savanna,</i>      | Mechanical Eng'g.     |

## JUNIORS

|                           |                           |                    |
|---------------------------|---------------------------|--------------------|
| Allen, Fred Eaton,        | <i>Delavan,</i>           | Agriculture.       |
| Allison, Fred Gray,       | <i>Alpha,</i>             | Agriculture.       |
| Alverson, Grace Margaret, | <i>Urbana,</i>            | Music.             |
| Anderson, Burt Thompson,  | <i>Galesburg,</i>         | Electrical Eng'g   |
| Archer, Arthur Ward,      | <i>Little Rock, Ark.,</i> | Architecture       |
| Argaves, Arlow J,         | <i>Sterling,</i>          | Civil Engineering. |
| Armstrong, Jessie Eva,    | <i>Champaign,</i>         | General, L. and A. |
| Aumer, Joseph Paul,       | <i>Peoria,</i>            | Chemistry.         |

|                                      |                              |                      |
|--------------------------------------|------------------------------|----------------------|
| Bagby, Francis Cyrus,                | <i>Rushville,</i>            | Civil Eng'g.         |
| Baird, Leo Preston,                  | <i>Abingdon,</i>             | General, L. and A.   |
| Baker, Orrin Hugh,                   | <i>Chicago,</i>              | Mechanical Eng'g.    |
| Baker, Ray Luzerne,                  | <i>Champaign,</i>            | Mechanical Eng'g.    |
| Baldwin, Jessie Emma,                | <i>Ottawa,</i>               | General Science.     |
| Banschbach, Litta Celia,             | <i>Princeton,</i>            | Library, 4th year.   |
| Barber, Harry Haughey,               | <i>Freeport,</i>             | Mechanical Eng'g.    |
| Barger, Thomas Morse,                | <i>Normal,</i>               | General Science.     |
| Barto, Philip Stephan,               | <i>Champaign,</i>            | General, L. and A.   |
| Barton, Walter Edmund,               | <i>Nokomis,</i>              | Mechanical Eng'g.    |
| Beckemeyer, Oscar William,           | <i>Buxton,</i>               | Business, L. and A.  |
| Bent, Charles Howard,                | <i>Chicago,</i>              | Mechanical Eng'g.    |
| Bethel, Charles Hugh,                | <i>Plainfield,</i>           | Electrical Eng'g.    |
| Beyer, George Frederick,             | <i>Cullom,</i>               | Chemical Eng'g.      |
| Billings, Walter Emerson,            | <i>Geneseo,</i>              | Mechanical Eng'g.    |
| Black, William,                      | <i>Mendota,</i>              | Mechanical Eng'g.    |
| Block, Walter Robert,                | <i>Champaign,</i>            | Agriculture.         |
| Bodwell, Frank Lyman,                | <i>Methuen, Mass.,</i>       | Civil Eng'g.         |
| Bond, Ethel,                         | <i>Champaign,</i>            | General, L. and A.   |
| Boone, Hugh Thomas,                  | <i>Urbana,</i>               | Agriculture.         |
| Born, Ora Littlefield,               | <i>Champaign,</i>            | Education, L. and A. |
| Boyer, Mabel Blanche,                | <i>Bloomington,</i>          | Music.               |
| Branch, Nellie Uree,                 | <i>Champaign,</i>            | General, L. and A.   |
| Brewer, William Emery,               | <i>Urbana,</i>               | Civil Eng'g.         |
| Broadhead, Lemma Cornelia,           | <i>Normal,</i>               | General, L. and A.   |
| Bronson, George Earl,                | <i>Chicago,</i>              | Civil Eng'g.         |
| Brooker, Mrs. Nellie Danely, A.B.    |                              |                      |
| ( <i>Northwestern Univ.</i> ), 1897, | <i>Urbana,</i>               | Architecture.        |
| Brooks, Richard Abner,               | <i>Saunemin,</i>             | Electrical Eng'g.    |
| Brown, Briggs Odd,                   | <i>Lyons, Ind.,</i>          | Electrical Eng'g.    |
| Bumstead, Frank Melvin,              | <i>Dundee,</i>               | Library, 4th year.   |
| Burke, James Joseph,                 | <i>Springfield,</i>          | Mechanical Eng'g.    |
| Burns, Deane,                        | <i>Macomb,</i>               | Chemical Eng'g.      |
| Burroughs, Guy Chaney,               | <i>Oregon,</i>               | Architecture.        |
| Burton, Albert Harvey,               | <i>Cisne,</i>                | General, L. and A.   |
| Bushnell, Howard Blaine,             | <i>Urbana,</i>               | Civil Eng'g.         |
| Caldwell, Edwin Fletcher,            | <i>Burlington Jct., Mo.,</i> | Agriculture.         |
| Caldwell, Will Carlton,              | <i>Monticello,</i>           | Architecture.        |
| Callan, John Albert,                 | <i>Gifford,</i>              | Civil Eng'g.         |
| Calloway, Russell Thornhill,         | <i>Taylorville,</i>          | Electrical Eng'g.    |
| Casey, Augustus Bacon,               | <i>Chicago,</i>              | Civil Eng'g.         |
| Cermak, Jerome,                      | <i>Chicago,</i>              | Civil Eng'g.         |

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|-----------------------------------|------------------------|----------------------|
| Chamberlain, Carl Coley,          | <i>Pittsfield,</i>     | Civil Eng'g.         |
| Chapin, Mae,                      | <i>Champaign,</i>      | General, L. and A.   |
| Charles, Alta Achsah,             | <i>Beardstown,</i>     | Education, L. and A. |
| Chesnut, Jennette Stewart,        | <i>Hartsburg,</i>      | Education, L. and A. |
| Clark, John Daniel,               | <i>Freeport,</i>       | Mechanical Eng'g.    |
| Clingan, Dennis Albert,           | <i>Georgetown,</i>     | General, L. and A.   |
| Cox, James Francis,               | <i>Urbana,</i>         | Medical.             |
| Craig, John Henry,                | <i>Lewiston,</i>       | Agriculture.         |
| Cratty, Paul Jones,               | <i>Oak Park,</i>       | Electrical Eng'g.    |
| Cromer, Alba Cornelius Honey-     | <i>well, Hoopston,</i> | Agriculture.         |
| Dailey, John Andrew,              | <i>Rock City,</i>      | Civil Eng'g.         |
| David, Samuel Garnett,            | <i>Onarga,</i>         | Agriculture.         |
| Davis, John June,                 | <i>Centralia,</i>      | General Science      |
| Davis, Nell Sarella McMillen,     | <i>Farmer City,</i>    | General, L. and A.   |
| Davis, Seymour Marquiss,          | <i>Farmer City,</i>    | Mechanical Eng'g.    |
| Dick, Carl Rankin,                | <i>Bloomington,</i>    | Architectural Eng'g. |
| Dillon, Edna Leila,               | <i>Urbana,</i>         | General, L. and A.   |
| Disosway, Mark Deems,             | <i>Sheldon,</i>        | Mechanical Eng'g.    |
| Dixon, Nellie Mabel,              | <i>Streator,</i>       | Education, L. and A. |
| Dodd, Townsend Foster,            | <i>Anna,</i>           | Electrical Eng'g.    |
| Donnersberger, Frank Joseph,      | <i>Chicago,</i>        | Civil Eng'g.         |
| Drew, Lynn Amos,                  | <i>Watseka,</i>        | Agriculture          |
| Dunn, Harold Houghton,            | <i>Moline,</i>         | Electrical Eng'g.    |
| Eaton, Helen Mary,                | <i>Tyler, Tex.,</i>    | General, L. and A.   |
| Eberspacher, Jacob Christian,     | <i>Pana,</i>           | Business, L. and A.  |
| Edmunds, Daniel Austin,           | <i>Gilman,</i>         | Mechanical Eng'g.    |
| Egy, Willard Leo,                 | <i>Urbana,</i>         | Electrical Eng'g.    |
| Elliott, Hiram Washburn,          | <i>Peoria,</i>         | Civil Eng'g.         |
| English, Jesse Thomas,            | <i>Isabel,</i>         | Civil Eng'g.         |
| Ernest, Thomas Reuben,            | <i>Swanwick,</i>       | General, L. and A.   |
| Ervin, John Frank,                | <i>Cutler,</i>         | Mechanical Eng'g.    |
| Evans, Edwin Rawden,              | <i>Rockford,</i>       | Mechanical Eng'g.    |
| Evans, Kenneth Neill, A.B., 1904, | <i>Taylorville,</i>    | Civil Eng'g.         |
| Everhart, Leon Ulysses,           | <i>Urbana,</i>         | General, L. and A.   |
| Fairchild, James Albert Leroy,    | <i>Muncie, Ind.,</i>   | General, L. and A.   |
| Fargo, Roy Newton,                | <i>Streator,</i>       | Electrical Eng'g.    |
| Farrar, Roscoe,                   | <i>Mattoon,</i>        | Agriculture,         |
| Farwell, Stanley Prince,          | <i>Chicago,</i>        | Electrical Eng'g.    |
| Flather, Alice Virginia,          | <i>Urbana,</i>         | Chemistry.           |
| Ford, William Sidney,             | <i>Tonica,</i>         | Chemical Eng'g.      |

Foreman, Chester Alva,  
 Fosler, Charles Edward,  
 Freeman, Perry John,  
 Fricke, Herman Henry,  
 Friend, Robert Owen,  
 Froom, Albert Nellis,  
 Frye, Frederick William,  
 Galhuly, Stanley Worcester,  
 Gardner, Harry Clifton,  
 Garrison, Lloyd,  
 Gay, Mary Louise,  
 Gephard, Earl Benjamin,  
 Gibbs, Forrest Linn,  
 Gilkerson, Portia Eunice,  
 Gill, Thomas Edward,  
 Glenn, Eleanor Mae,  
 Gonzalez, Arturo,

Graham, Donald,  
 Grear, Sidney,  
 Green, Bessie Rose,  
 Green, Harry L.,  
 Greenleaf, Moses,  
 Greenman, Margaret Grace,

Gregory, Carl Earl,  
 Grierson, Walter Gay,  
 Gross, Alfred Otto,  
 Gunn, Alexander Hunter,  
 Gustafson, Axel Ferdinand  
 Gwinn, Alta,  
 Hagan, Michael Edward,  
 Hake, Harry Gray,  
 Hall, Frederic Charles,  
 Hall, Janet Alletta,  
 Hall, Quincy Allen,  
 Hanke, Frederick Edward,  
 Hanna, Roberta Louise,

Harding, Albert Austin,  
 Harnist, Joseph Milton,

*Pittsfield,* Civil Eng'g.  
*Savanna,* Mechanical Eng'g.  
*Georgesville, O.,* Mechanical Eng'g.  
*Sparta,* Mechanical Eng'g.  
*Evanston,* Electrical Eng'g.  
*Chicago,* Agriculture.  
*Aberdeen, Miss.,* Civil Eng'g.  
*White Hall,* Civil Eng'g.  
*Viola,* Electrical Eng'g.  
*Milford,* Electrical Eng'g.  
*Rockport,* General, L. and A.  
*Mendota,* Civil Eng'g.  
*Princeton,* Architecture.  
*Urbana,* Household Science, Agr.  
*Pecatonica,* General, L. and A.  
*Champaign,* Education, L. and A.  
*Sacramento, Coahuila, Mexico,*  
 Architectural Eng'g.

*Noblesville, Ind.,* Architecture.  
*Anna,* Civil Eng'g.  
*Ivesdale,* Education, Science.  
*Rockford,* General, L. and A.  
*Jacksonville,* Agriculture  
*Champaign,*  
 Household Science, Agr.

*Elgin,* Business, L. and A.  
*Morrison,* Architectural Eng'g.  
*Atwood,* Medical.  
*Evanston,* Mechanical Eng'g.  
*Aledo,* Agriculture.  
*Urbana,* General, L. and A.  
*Champaign,* Electrical Eng'g.  
*Barry,* Electrical Eng'g.  
*Buffalo,* Civil Eng'g.  
*Danville,* Medical.  
*Milford,* Mechanical Eng'g.  
*Harvey,* Mechanical Eng'g.  
*Oak Park,*

Household Science, L. and A.  
*Paris,* Municipal Eng'g.  
*Ludlow,* Mechanical Eng'g.

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|------------------------------|--|
| Harper, Bertha May,          | <i>Urbana</i> , Household Science, Agr.          |
| Harpole, Byron,              | <i>Indianapolis, Ind.</i> , Electrical Eng'g.    |
| Harvey, Bessie Maye,         | <i>Urbana</i> , General, L. and A.               |
| Haungs, Howard Charles,      | <i>Peoria</i> , Civil Eng'g.                     |
| Hawley, Ralph S,             | <i>La Grange</i> , General, L. and A.            |
| Hawthorne, Leo,              | <i>Oregon</i> , Mechanical Eng'g.                |
| Helm, Roy Raymond,           | <i>Metropolis</i> , General, L. and A.           |
| Hepburn, Nelson William,     | <i>Genoa</i> , Agriculture.                      |
| Higgins, Daniel Franklin,    | <i>Joliet</i> , Chemical Eng'g.                  |
| Hinman, John Harmon,         | <i>Mt. Vernon</i> , Mechanical Eng'g.            |
| Hoff, Charles Edward,        | <i>Havana</i> , Civil Eng'g.                     |
| Hollister, Vernon Lee,       | <i>Oak Park</i> , Electrical Eng'g.              |
| Hook, Charles Alfred,        | <i>Vienna</i> , Mechanical Eng'g.                |
| Howe, Alice,                 | <i>Urbana</i> , General, L. and A.               |
| Howell, Leslie Dillon,       | <i>Ipava</i> , Architecture                      |
| Hubbart, Gurth Searle,       | <i>Champaign</i> , Business, L. and A.           |
| Hughes, Anna Raphael,        | <i>Champaign</i> , Music.                        |
| Hull, Ward Louis,            | <i>Urbana</i> , Agriculture.                     |
| Hunt, Jasper Newton, Jr.,    | <i>Chicago</i> , Business, L. and A.             |
| Huse, Louise Marie,          | <i>Mason City</i> , General, L. and A.           |
| Hutchin, Claire Elwood,      | <i>Decatur</i> , General, L. and A.              |
| Irwin, Daisy Dell,           | <i>Long View</i> , General, L. and A.            |
| Jacob, Ernst Otto,           | <i>Quincy</i> , Mechanical Eng'g.                |
| James, Carl,                 | <i>Pittsfield</i> , Civil Eng'g.                 |
| Jens, Roy Edward,            | <i>Rock Island</i> , Electrical Eng'g.           |
| Jensen, Joseph Norman,       | <i>Chicago</i> , Civil Eng'g.                    |
| Jensen, Trygve,              | <i>Christiana, Norway</i> ,<br>Electrical Eng'g. |
| Jervis, Katherine Belle,     | <i>Champaign</i> , General, L. and A.            |
| Jessup, Richard Dale,        | <i>Chicago</i> , Mechanical Eng'g.               |
| Johnston, Elizabeth Jane,    | <i>Illio polis</i> , Education, L. and A.        |
| Johnston, Ernest Hungerford, | <i>Chicago</i> , Electrical Eng'g.               |
| Jones, Horace Norman, Jr.,   | <i>Batavia</i> , Mechanical Eng'g.               |
| Joy, Harold Pratt,           | <i>Chapin</i> , Agriculture.                     |
| Kacin, Anton Charles,        | <i>Chicago</i> , Electrical Eng'g.               |
| Kammerman, John Oscar,       | <i>Joliet</i> , Electrical Eng'g.                |
| Kays, Victor C,              | <i>Magnolia</i> , Agriculture.                   |
| Kelley, Truman Lee,          | <i>Muskegon, Mich.</i> ,<br>General, L. and A.   |
| Kendall, Myron Avery,        | <i>Aurora</i> , Mechanical Eng'g.                |
| Kerr, Josephine,             | <i>Urbana</i> , Household Science, Agr.          |

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| Kilpatrick, Mabel,            | <i>Little Rock, Ark.,</i><br>Education, L. and A. |
| Kinsey, Leon Browning,        | <i>Mackinaw,</i> Civil Eng'g.                     |
| Kirley, John Thomas,          | <i>Kewanee,</i> Civil Eng'g.                      |
| Knapp, Willard Alfred,        | <i>Farmer City,</i> Civil Eng'g.                  |
| Knappenberger, George Emmett, | <i>Macomb,</i> Medical.                           |
| Knox, Jean Howard,            | <i>Oklahoma City, Okla.,</i><br>Mechanical Eng'g. |
| Koch, Alfred Richard,         | <i>Alton,</i> Chemical Eng'g.                     |
| Kratz, Alonzo Plumsted,       | <i>Champaign,</i> Mechanical Eng'g.               |
| Lafin, Mary Elizabeth,        | <i>Champaign,</i> Music.                          |
| Lake, Elmer S,                | <i>Cantrall,</i> Education, L. and A.             |
| Larabee, Charles David,       | <i>Paw Paw,</i> Chemistry                         |
| Lazear, Weston Bross,         | <i>Chicago,</i> Mechanical Eng'g.                 |
| Lee, Mary Howard,             | <i>Aledo,</i> General, L. and A.                  |
| Lewis, Wilfred,               | <i>Dubuque, Ia.,</i> Civil Eng'g.                 |
| Liggett, Frederick Manley,    | <i>Hamburg, Ia.,</i> Architecture.                |
| Little, Roger Frank,          | <i>Tolono,</i> General, L. and A.                 |
| Logan, Clarence Chester,      | <i>Flora,</i> Agriculture.                        |
| Long, Joseph Ayres,           | <i>Amboy,</i> Civil Eng'g.                        |
| Longfellow, Eben Simon,       | <i>Newton, Ia.,</i> Civil Eng'g.                  |
| Lowry, Jessie Rudisill,       | <i>Wilmette,</i> General, L. and A.               |
| Lumbrick, Arthur,             | <i>Charleston,</i> Agriculture.                   |
| Luney, Frank Solon,           | <i>De Kalb,</i> Mechanical Eng'g.                 |
| McCarty, Laurence Justin,     | <i>Sioux City, Ia.,</i> Architecture.             |
| McCaskey, Wendla Justitia,    | <i>Chicago,</i> General, L. and A.                |
| McConaughy, Frank Harold,     | <i>Rochelle,</i> Business, L. and A.              |
| McConoughey, Earl Wyeth,      | <i>Chicago,</i> Civil Eng'g.                      |
| McCracken, Robert Weir,       | <i>Chicago,</i> Civil Eng'g.                      |
| McIntyre, Ruhama Louise,      | <i>Newman,</i> General, L. and A.                 |
| Mackay, Jesse John,           | <i>Mt. Carroll,</i> Agriculture.                  |
| MacKay, Sarah Davina,         | <i>Mt. Carroll,</i> General Science.              |
| Mackey, George Bartholomew,   | <i>Chicago,</i> Mechanical Eng'g.                 |
| McKinnie, Eva May,            | <i>LeRoy,</i> Education, L. and A.                |
| McManis, James William,       | <i>LaMoille,</i> Civil Eng'g.                     |
| Maddock, Alice Emily,         | <i>Chicago,</i> General Science.                  |
| Maddox, Wilbur Clinton,       | <i>Galva,</i> Electrical Eng'g.                   |
| Main, Josiah,                 | <i>Champaign,</i> Agriculture.                    |
| Marks, David Thaddeus,        | <i>Dixon,</i> Electrical Eng'g.                   |
| Marshall, Chester Arthur,     | <i>Mokena,</i> General, L. and A.                 |
| Martin, Earl W,               | <i>Geneseo,</i> Electrical Eng'g.                 |

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|-------------------------------|---------------------------|----------------------|
| Martin, John Linton,          | <i>Wilmington,</i>        | Agriculture.         |
| Maxwell, Wymer Washington,    | <i>Charleston,</i>        | Architecture.        |
| Meadows, David Stanley,       | <i>Chicago,</i>           | Civil Eng'g.         |
| Meharry, Charles Leo,         | <i>Tolono,</i>            | Agriculture.         |
| Merritt, Harold Emmett,       | <i>Salem,</i>             | Civil Eng'g.         |
| Meyer, John Frederick, Jr.,   | <i>Hannibal, Mo.,</i>     | Architecture.        |
| Miller, Chester Branch,       | <i>Champaign,</i>         | Business, L. and A.  |
| Miller, James Erickson,       | <i>Paxton,</i>            | Electrical Eng'g.    |
| Miller, Roy Austin,           | <i>Aurora,</i>            | Civil Eng'g.         |
| Mills, John McCuen,           | <i>Milwaukee, Wis.,</i>   | General, L. and A.   |
| Millspaugh, Martin Laurence,  | <i>Davenport, Ia.,</i>    | Mechanical Eng'g.    |
| Mitchell, Roy Craig,          | <i>Fairfield, Ia.,</i>    | Architectural Eng'g. |
| Moore, Charles Lawrence,      | <i>Urbana,</i>            | Mechanical Eng'g.    |
| Moore, Louis Conway,          | <i>Newman,</i>            | Mechanical Eng'g.    |
| Moore, Samuel Burns,          | <i>Louisville,</i>        | Mechanical Eng'g.    |
| Morgan, Meryl Stanley,        | <i>Galva,</i>             | Civil Eng'g.         |
| Moulton, Charles Robert,      | <i>Glen Ellyn,</i>        | Chemical Eng'g.      |
| Moulton, Walter Ross,         | <i>Glen Ellyn,</i>        | Electrical Eng'g.    |
| Mowder, Clyde Leroy,          | <i>Havana,</i>            | Civil Eng'g.         |
| Mueller, Grover Robert,       | <i>Chicago,</i>           | Mechanical Eng'g.    |
| Murphy, Emmet Loehr,          | <i>Jerseyville,</i>       | Architecture.        |
| Nelson, Jacob Clark,          | <i>Canton,</i>            | Agriculture.         |
| Nichol, Anice Eunice,         | <i>Urbana,</i>            | Library, L. and A.   |
| Nichol, Marion Starr,         | <i>Urbana,</i>            | General, L. and A.   |
| Nielson, Joseph Nicolay,      | <i>Chicago,</i>           | Mechanical Eng'g.    |
| Noerenberg, Clarence Eugene,  | <i>Highland Park,</i>     | Arch. Eng'g.         |
| Oathout, Charles Hubert,      | <i>Urbana,</i>            | Agriculture.         |
| Oliphant, Chester Edwin,      | <i>Ft. Wayne, Ind.,</i>   | Electrical Eng'g.    |
| Paine, Mattie May,            | <i>Rosemond,</i>          | General, L. and A.   |
| Parks, Dwight Comstock,       | <i>Murphysboro,</i>       | Agriculture.         |
| Parsons, Irene Mary,          | <i>Chicago,</i>           | Classical            |
| Parsons, Maud Edna,           | <i>Elgin,</i>             | General, L. and A.   |
| Paton, Walter Coffman,        | <i>Kansas City, Kas.,</i> | Mech. Eng'g.         |
| Payton, Lyle,                 | <i>Moline,</i>            | Civil Eng'g.         |
| Pearman, Arthur Columbia,     | <i>Champaign,</i>         | General Science.     |
| Peck, Harry Spencer,          | <i>Shepherd,</i>          | Civil Eng'g.         |
| Peine, Adelia Lydia Caroline, | <i>Minier,</i>            | Education, L. and A. |
| Perreault, Maurice Seraph,    | <i>St. Anne,</i>          | Civil Eng'g.         |
| Phillips, Guy Derrick,        | <i>Chicago,</i>           | Civil Eng'g.         |
| Pillsbury, Charles Stephen,   | <i>Urbana,</i>            | Mechanical Eng'g.    |

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|-------------------------------|-----------------------------|----------------------|
| Piper, Ellsworth Elmer,       | <i>Champaign,</i>           | Mechanical Eng'g.    |
| Pitkin, Frances Clara,        | <i>Chicago,</i>             | Art and Design.      |
| Poorman, Alfred Peter,        | <i>Altamont,</i>            | Civil Eng'g.         |
| Pope, George Samuel,          | <i>Kane,</i>                | Mechanical Eng'g.    |
| Porter, Edward Alexander,     | <i>Momence,</i>             | Agriculture.         |
| Powers, Lawrence Clemment,    | <i>Tiskilwa,</i>            | Medical.             |
| Pruitt, Forrest Allen,        | <i>Watseka,</i>             | Civil Eng'g.         |
| Quick, Samuel Ritchie,        | <i>Fort Collins, Colo.,</i> | Architecture.        |
| Randall, James,               | <i>Peoria,</i>              | Mechanical Eng'g.    |
| Ray, Arthur E,                | <i>Rockford,</i>            | Electrical Eng'g.    |
| Ray, Arthur Jay,              | <i>Cuba,</i>                | Electrical Eng'g.    |
| Reardon, Charles Carroll,     | <i>Delavan,</i>             | General, L. and A.   |
| Reardon, Clarence Henry,      | <i>Delavan,</i>             | General, L. and A.   |
| Reynolds, Frank Howard,       | <i>Moline,</i>              | Civil Eng'g.         |
| Richardson, William Hadden,   | <i>Black River, N.Y.,</i>   | Civil Eng'g.         |
| Robertson, Norman Sumner,     | <i>Beardstown,</i>          | Business, L. and A.  |
| Rogers, Franklin Griffith,    | <i>Chicago,</i>             | Mechanical Eng'g.    |
| Rolfe, Amy Lucile,            | <i>Champaign,</i>           | General Science.     |
| Ross, Roy Van,                | <i>White Hall,</i>          | General, L. and A.   |
| Ryan, Jessie,                 | <i>Paris,</i>               | Education, L. and A. |
| Ryder, Gilbert Emery,         | <i>Sandwich,</i>            | Railway Eng'g.       |
| St. John, Alfred Harvey,      | <i>Utica,</i>               | Mechanical Eng'g.    |
| Savidge, Harry,               | <i>Farmer City,</i>         | Civil Eng'g.         |
| Schafmayer, Albert James,     | <i>Scales Mound,</i>        | Civil Eng'g.         |
| Schaller, Alwin,              | <i>Mendota,</i>             | Mechanical Eng'g.    |
| Schertz, Joseph William,      | <i>Tiskilwa,</i>            | Civil Eng'g.         |
| Scholz, Herman Albert,        | <i>Burlington, Ia.,</i>     | Chemistry            |
| Schroeder, William Frederick, | <i>Rock Island,</i>         | Electrical Eng'g.    |
| Schumacher, Louis Gustav,     | <i>St. Joseph, Mo.,</i>     | Electrical Eng'g.    |
| Scott, James Robinson, Jr.,   | <i>Champaign,</i>           | Civil Eng'g.         |
| Scott, Miriam Elsie,          | <i>Chicago,</i>             | General, L. and A.   |
| Scott, William Renick,        | <i>Scymour,</i>             | Electrical Eng'g.    |
| Seaman, Arthur Terwilliger,   | <i>Elgin,</i>               | Civil Eng'g.         |
| Shade, Henry Roscoe,          | <i>Bloomington,</i>         | Agriculture.         |
| Shade, Imogene,               | <i>Bloomington,</i>         | General, L. and A.   |
| Shaw, Hazel Yearsley,         | <i>Urbana,</i>              | Education, L. and A. |
| Sloane, Robert Hugh,          | <i>Missoula, Mont.,</i>     | Mech. Eng'g.         |
| Slocum, Fielder,              | <i>Urbana,</i>              | Mechanical Eng'g.    |
| Smith, Claude Everett,        | <i>Springfield,</i>         | Electrical Eng'g.    |
| Smith, Helen Brownell,        | <i>Chicago.</i>             | General, L. and A.   |
| Smith, Sidney Benjamin,       | <i>Springfield,</i>         | Agriculture.         |

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|------------------------------|------------------------------|-----------------------------|
| Smith, William Walter, A.B., | 1900, <i>Broadlands,</i>     | Civil Eng'g.                |
| Somers, Florence Barbara,    | <i>Ft. Dodge, Ia.,</i>       | Education, L. and A.        |
| Spitler, John Clyde,         | <i>Montrose,</i>             | Agriculture.                |
| Sprague, Florence Olive,     | <i>Lockport,</i>             | General, L. and A.          |
| Stahl, Lloyd Richard,        | <i>Chillicothe,</i>          | Electrical Eng'g.           |
| Stanley, Arba Porter,        | <i>Ashtabula, O.,</i>        | Mechanical Eng'g.           |
| Stearns, Earl Downing,       | <i>Champaign,</i>            | Mechanical Eng'g.           |
| Stevenson, Annie Nicewander, | <i>Nebraska City, Nebr.,</i> | Household Science, Agr.     |
| Stewart, Walter Morgan,      | <i>Evanston,</i>             | Electrical Eng'g.           |
| Stinson, Spencer A,          | <i>Cabery,</i>               | Civil Eng'g.                |
| Straight, Fleda De Vere,     | <i>Fonda, Ia.,</i>           | Library, L. and A.          |
| Straight, Halver Rufus,      | <i>Fonda, Ia.,</i>           | Mechanical Eng'g.           |
| Strawn, James Albert,        | <i>Forrest,</i>              | Mechanical Eng'g.           |
| Strombeck, George Mauritz,   | <i>Moline,</i>               | Mechanical Eng'g.           |
| Swartz, Mary Katharine,      | <i>Urbana,</i>               | General, L. and A.          |
| Tanquary, Maurice Cole,      | <i>Lawrenceville,</i>        | General Science.            |
| Tarnoski, Edward Romaine,    | <i>Chicago,</i>              | Civil Eng'g.                |
| Tarnoski, Paul Thaddæus,     | <i>Chicago,</i>              | Chemistry.                  |
| Taylor, Fred Coe,            | <i>Chicago,</i>              | Civil Eng'g.                |
| Taylor, Roy Elmer,           | <i>Normal,</i>               | Agriculture.                |
| Thissell, Inez,              | <i>Urbana,</i>               | Library, L. and A.          |
| Thomas, Alfred Monroe,       | <i>Tampico,</i>              | Architectural Eng'g.        |
| Thompson, Emmet Collins,     | <i>Byron,</i>                | Mechanical Eng'g.           |
| Thomson, Fred Newton,        | <i>Paxton,</i>               | Agriculture.                |
| Tilden, Elmer A,             | <i>Canton, O.,</i>           | Architecture.               |
| Tornquist, Charles Herman,   | <i>Champaign,</i>            | Civil Eng'g.                |
| Trams, Theodore Herman,      | <i>Champaign,</i>            | Civil Eng'g.                |
| Trees, Merle John,           | <i>Frankfort, Ind.,</i>      | Civil Eng'g.                |
| Trego, Walter,               | <i>Hoopeston,</i>            | Agriculture.                |
| Truman, Edna,                | <i>Urbana,</i>               | Household Science, Science. |
| Tryon, Floyd Clinton,        | <i>Woodstock,</i>            | Mechanical Eng'g.           |
| Tull, Jessie Ann,            | <i>Farmer City,</i>          | Education, L. and A.        |
| Tull, Nelson Grover,         | <i>Farmer City,</i>          | General, L. and A.          |
| Van Doren, Carl Clinton,     | <i>Urbana,</i>               | General, L. and A.          |
| Vanneman, Harry Walter,      | <i>Urbana,</i>               | General, L. and A.          |
| Van Voorhis, Bentley Morton, | <i>Tuscola,</i>              | General, L. and A.          |
| Vasen, Maurice Eschner,      | <i>Quincy,</i>               | General, L. and A.          |

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|---------------------------------|----------------------------|----------------------|
| Wakefield, Nathan Ruthven, Jr., | <i>Chicago,</i>            | General, L. and A.   |
| Wall, Richard James Francis,    | <i>Chicago,</i>            | Architecture.        |
| Walters, Bertha Evelyn,         | <i>Woodstock,</i>          | Education, L. and A. |
| Ward, Henry Ben Pope,           | <i>Mt. Vernon,</i>         | General, L. and A.   |
| Ward, Owen Martin,              | <i>Champaign,</i>          | Electrical Eng'g.    |
| Warner, James Madison,          | <i>Chicago,</i>            | Civil Eng'g.         |
| Warner, Victor Eugene,          | <i>Flora,</i>              | Business, L. and A.  |
| Waterhouse, Charles Eugene,     | <i>Burlington, Ia.,</i>    | Mathematics, S.      |
| Weakley, Howard Grafton,        | <i>Shelbyville,</i>        | General, L. and A.   |
| Webber, William Barnett, Jr.,   | <i>Urbana,</i>             | Mechanical Eng'g.    |
| Welch, Frank Marshall,          | <i>Aurora,</i>             | Mechanical Eng'g.    |
| West, Porter Royal,             | <i>Watseka,</i>            | Mechanical Eng'g.    |
| Westfall, Curtis Cornelius,     | <i>Bushnell,</i>           | Civil Eng'g.         |
| White, Fred H,                  | <i>Longview,</i>           | Agriculture.         |
| Wilkinson, Mary Stanclyffe,     | <i>Champaign,</i>          | General, L., and A.  |
| Williams, Anna Waller,          | <i>Urbana,</i>             | General, L. and A.   |
| Williams, Djalma Downey,        | <i>Clinton,</i>            | Civil Eng'g.         |
| Williams, George Annis,         | <i>Galva,</i>              | Electrical Eng'g.    |
| Wilson, Hugh Edward,            | <i>Mason City</i>          | General, L. and A.   |
| Wilson, John Dean,              | <i>Lafayette, Ind.,</i>    | Business, L. and A.  |
| Winn, Claude Ethelbert,         | <i>Paris,</i>              | Civil Eng'g.         |
| Wood, Henry Clay,               | <i>De Kalb,</i>            | Agriculture.         |
| Woodham, Harry,                 | <i>Albion,</i>             | General Science.     |
| Worthen, Jeannette Lamb,        | <i>Warsaw,</i>             | General, L. and A.   |
| Wright, William Price,          | <i>Libertyville,</i>       | General, L. and A.   |
| Yale, Louise Pomeroy,           | <i>St. Louis, Mo.,</i>     | General Science      |
| Yant, Raymond Cliff,            | <i>Keokuk, Ia.,</i>        | Civil Eng'g.         |
| Yeaton, Fred Drinkwater,        | <i>Indianapolis, Ind.,</i> | Civil Eng'g.         |
| Yeck, Charles Walter,           | <i>Flora,</i>              | Medical.             |
| Young, Rose Jeannette,          | <i>Rushville,</i>          | General Science.     |
| Ziegler, Jacob Frank,           | <i>Clinton,</i>            | Agriculture.         |

#### SOPHOMORES

|                           |                    |                      |
|---------------------------|--------------------|----------------------|
| Adams, Edwin Bert,        | <i>Steger,</i>     | Electrical Eng'g.    |
| Allen, Albert,            | <i>Mt. Vernon,</i> | Business, L. and A.  |
| Almy, William Herbert,    | <i>Sterling,</i>   | Mechanical Eng'g.    |
| Anderson, George Herbert, | <i>Roseville,</i>  | General, L. and A.   |
| App, Charles Max,         | <i>Urbana,</i>     | Medical              |
| Apple, Merri Ghloc,       | <i>Palestine,</i>  | Education, L. and A. |
| Arthur, Robert Stuart,    | <i>Oak Park,</i>   | Civil Eng'g.         |
| Ash, Robert Edwin,        | <i>Rockford,</i>   | General, L. and A.   |

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|--------------------------------|--------------------------|-------------------------|
| Atkinson, Harry James,         | <i>Joliet,</i>           | General Science.        |
| Atwood, Paul Wiley,            | <i>Lewistown,</i>        | Agriculture.            |
| Bach, Irwin Woodward,          | <i>Farmer City,</i>      | Medical.                |
| Baker, Geraldine Louise,       | <i>Streator,</i>         | Music.                  |
| Baker, Ruth Marsh,             | <i>Champaign,</i>        | General, L. and A.      |
| Baldwin, Helen Ruby,           | <i>Paris,</i>            | Household Science, Agr. |
| Ball, John Dudley,             | <i>Pontiac,</i>          | Mechanical Eng'g.       |
| Ballantyne, George Horton,     | <i>Burlington, Iowa,</i> | Civil Eng'g.            |
| Bannon, Winifred Agnes,        | <i>Joliet,</i>           | Education, L. and A.    |
| Barker, Lawrence Byron,        | <i>Batavia,</i>          | Municipal Eng'g.        |
| Barnett, William Floyd,        | <i>Barnett,</i>          | General, L. and A.      |
| Barnhart, Edna Pearl,          | <i>Urbana,</i>           | General, L. and A.      |
| Barnhart, Jesse Melangthon,    | <i>Mansfield,</i>        | Chemistry               |
| Barr, Nelson Rogers,           | <i>Quincy,</i>           | Electrical Eng'g.       |
| Barrett, Jesse Logan,          | <i>Henry,</i>            | Agriculture.            |
| Bartells, Edwin Jacob,         | <i>Camp Point,</i>       | Chemistry.              |
| Bartells, George Case, Jr.,    | <i>Camp Point,</i>       | Chemistry.              |
| Barter, Ada Jane,              | <i>Chicago,</i>          | General, L. and A.      |
| Bartlett, Walter Edgar,        | <i>Elburn,</i>           | Agriculture.            |
| Bauer, August Harvey,          | <i>Chicago,</i>          | Medical.                |
| Beal, Daniel Middlekauff,      | <i>Moline,</i>           | Medical.                |
| Beardsley, Eleanor Mahan,      | <i>Kansas City, Mo.,</i> | General, L. and A.      |
| Benefiel, Wenona Epps,         | <i>Urbana,</i>           | Mathematics, S.         |
| Berolzheimer, Solomon Milton,  | <i>Chicago Heights,</i>  | Mech. Eng'g.            |
| Besore, Hazel,                 | <i>Urbana,</i>           | General, L. and A.      |
| Bickel, Mary Andrews,          | <i>Geneseo,</i>          | Library, L. and A.      |
| Bigelow, Janet Victoria,       | <i>Galva,</i>            | General, L. and A.      |
| Black, William Z,              | <i>Urbana,</i>           | Agriculture             |
| Blake, Charles Lewis,          | <i>Watseka,</i>          | Civil Eng'g.            |
| Blanchflower, J Roy,           | <i>Springfield,</i>      | Electrical Eng'g.       |
| Blohm, Lee Ross,               | <i>Beardstown,</i>       | General, L. and A.      |
| Bookwalter, Robert R,          | <i>Danville,</i>         | General, L. and A.      |
| Boothe, Viron Joseph,          | <i>El Paso, Texas,</i>   | Electrical Eng'g.       |
| Bowman, Louis Napoleon,        | <i>Mason City,</i>       | Civil Eng'g.            |
| Bradley, John Jay,             | <i>Chicago,</i>          | Electrical Eng'g.       |
| Bradshaw, Percy Belmont,       | <i>Dixon,</i>            | Electrical Eng'g.       |
| Brand, Herbert Amery,          | <i>Danville,</i>         | Architecture.           |
| Breckenridge, Gladys Sinclair, | <i>Urbana,</i>           | General, L. and A.      |
| Bredehoft, Nellie Matilda,     | <i>Danville,</i>         | General, L. and A.      |
| Bressler, Charles Emery, Jr.,  | <i>South Bend, Ind.,</i> | Civil Eng'g.            |

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|--------------------------------|-------------------------|-------------------------|
| Brown, Earl Clarence,          | <i>Charleston,</i>      | Civil Eng'g.            |
| Brown, Harry Clifford, Jr.,    | <i>Chicago,</i>         | Civil Eng'g.            |
| Brown, Ruth Elizabeth,         | <i>Dixon,</i>           | General, L. and A.      |
| Brubaker, Percy Scutt,         | <i>Dwight,</i>          | Architectural Eng'g.    |
| Brundage, Florence Louise,     | <i>Muckegon, Mich.,</i> | Lib., L. and A.         |
| Bryan, Sarah Elizabeth,        | <i>Champaign,</i>       | Household Sci., Agr.    |
| Buenger, Louis,                | <i>Edwardsville,</i>    | General, L. and A.      |
| Bullard, Clark Wesley,         | <i>Springfield,</i>     | Architecture            |
| Bumstead, Arthur Pingree,      | <i>Dundee,</i>          | General, L. and A.      |
| Burch, George Francis,         | <i>Taylorville,</i>     | Civil Eng'g.            |
| Burgess, Benjamin Payson,      | <i>Aurora,</i>          | Civil Eng'g.            |
| Burr, Chauncey Stillwell, Jr., | <i>Chicago,</i>         | Civil Eng'g.            |
| Burres, Opal,                  | <i>Urbana,</i>          | General, L. and A.      |
| Burroughs, Wilbur Gordon,      | <i>Edwardsville,</i>    | Civil Eng'g.            |
| Burwash, Florence Lerria,      | <i>Champaign,</i>       | General Science.        |
| Burwash, Milo Eugene,          | <i>Champaign,</i>       | Agriculture.            |
| Busey, Carolyn Elizabeth,      | <i>Urbana,</i>          | Household Science, Agr. |
| Busey, Charles Bowen,          | <i>Urbana,</i>          | General, L. and A.      |
| Bushnell, Ethel May,           | <i>Paxton,</i>          | General, L. and A.      |
| Bushnell, Horace Leland,       | <i>Paxton,</i>          | Architectural Eng'g.    |
| Butler, Beatrice Martindale,   | <i>Chicago,</i>         | General, L. and A.      |
| Butler, John Prescott,         | <i>Monticello,</i>      | Civil Eng'g.            |
| Buxton, Edwin Walker,          | <i>Jacksonville,</i>    | Civil Eng'g.            |
| Buyers, Archie Stanton,        | <i>Sterling,</i>        | Mechanical Eng'g.       |
| Byers, Frank Milton,           | <i>Charleston,</i>      | Agriculture             |
| Cabanis, John Brahm,           | <i>Kinmundy,</i>        | Civil Eng'g.            |
| Campbell, Samuel Charles,      | <i>Marissa,</i>         | Civil Eng'g.            |
| Candor, Robert Jay,            | <i>Aledo,</i>           | Architecture.           |
| Cantrall, Evans Earl,          | <i>Springfield,</i>     | Civil Eng'g.            |
| Carrithers, Ira Thomson,       | <i>Saunemin,</i>        | General, L. and A.      |
| Casteel, Sarah Myrtle,         | <i>Danville,</i>        | General, L. and A.      |
| Castle, Frederick Boyd,        | <i>Quincy,</i>          | Mechanical Eng'g.       |
| Clanahan, Robert Hodge,        | <i>Springfield,</i>     | Agriculture             |
| Clark, Albert Barnes, Jr.,     | <i>Honolulu, H. I.,</i> | Gen'l, L. and A.        |
| Claypool, Roy Earnest,         | <i>Marshall,</i>        | General, L. and A.      |
| Clifford, Winnifred Hazel,     | <i>Champaign,</i>       | General, L. and A.      |
| Coombs, Joseph Booker,         | <i>Princeton,</i>       | Business, L. and A.     |
| Coen, Margaret Doris,          | <i>Normal,</i>          | General, L. and A.      |
| Coggeshall, Lester B.,         | <i>Ridge Farm,</i>      | Agriculture.            |
| Coghlan, Byron Kemp,           | <i>Kankakee,</i>        | Civil Eng'g.            |
| Colburn, Joseph Elliott,       | <i>Highland Park,</i>   | Electrical Eng'g.       |

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| Connelly, Emma B,              | <i>Cincinnati, O.,</i>               | Mathematics, S.              |
| Cook, Frank Louis,             | <i>Oak Park,</i>                     | Electrical Eng'g.            |
| Cooke, Allan Burton,           | <i>Danville,</i>                     | Mechanical Eng'g             |
| Cooper, Hazle Katherine,       | <i>Champaign,</i>                    | General, L. and A            |
| Corwine, George Delwin,        | <i>Delavan,</i>                      | Civil Eng'g.                 |
| Crihfield, Philip A,           | <i>Atlanta,</i>                      | Business, L. and A.          |
| Crossett, Gordon William,      | <i>Salem,</i>                        | Electrical Eng'g.            |
| Crum, Ethel,                   | <i>Lexington.</i>                    | General, L. and A.           |
| Curtis, Charles Ernest,        | <i>Clarendon.</i>                    | Agriculture.                 |
| Dadant, Maurice G,             | <i>Hamilton,</i>                     | Business L. and A.           |
| Danely, Paul,                  | <i>Urbana,</i>                       | Agriculture                  |
| Davidson, Dora,                | <i>Sullivan,</i>                     | General L. and A.            |
| Davis, Marietta Syrl,          | <i>Straight Creek, Kas.,</i>         | General, L. and A.           |
| DeLany, Clarence Martin,       | <i>Chicago,</i>                      | Chemical Eng'g.              |
| Devine, Mary Margaret,         | <i>Chicago,</i>                      | General, L. and A.           |
| Dewey, Chester Robert,         | <i>Morris,</i>                       | General L. and A.            |
| DeWitt, Homer Roscoe,          | <i>Chicago,</i>                      | Civil Eng'g                  |
| Dicke, Otto Arthur,            | <i>St. Louis, Mo.,</i>               | Civil Eng'g.                 |
| Dickinson, Nelle Major,        | <i>Eureka,</i>                       | Household Science, Agr.      |
| Dillehunt, Richard Benjamin,   | <i>Decatur,</i>                      | Medical.                     |
| Dillon, Bessie,                | <i>Normal,</i>                       | Household Science, Agr.      |
| Dillon, Lee Amos,              | <i>Sheldon,</i>                      | General, L. and A.           |
| Doherty, Mary Gertrude,        | <i>LaGrange,</i>                     | General, L. and A.           |
| Dohren, Henry Richard,         | <i>Chicago,</i>                      | Mechanical Eng'g.            |
| Donoho, Earl Willoughby, A.B., |                                      |                              |
| (McKendree Coll.), 1904,       | <i>Troy,</i>                         | Mechanical Eng'g.            |
| Doron, William Hyde,           | <i>Cold Springs-on-Hudson, N.Y.,</i> | Electrical Eng'g.            |
| Dugan, Charles Bedard,         | <i>LaSalle,</i>                      | Electrical Eng'g.            |
| Dunning, Frank Wright,         | <i>Aurora,</i>                       | Mechanical Eng'g.            |
| Dunning, William Benjamin,     | <i>Aurora,</i>                       | Civil Eng'g.                 |
| Durland, Alice Harriet,        | <i>LaGrange,</i>                     | General, L. and A.           |
| Dyckes, Lawrence Julian,       | <i>Lewistown,</i>                    | Electrical Eng'g.            |
| East, Ella Genevieve,          | <i>St. Louis, Mo.,</i>               | General, L. and A.           |
| Edwards, Jeannette Ellen,      | <i>Champaign,</i>                    | General, L. and A.           |
| Edwards, Jessie May,           | <i>Urbana,</i>                       | Art and Design.              |
| Ehly, Emma Lodema,             | <i>Ottawa,</i>                       | General, L. and A.           |
| Eiszner, Adeline Christine,    | <i>Oak Park,</i>                     | Household Science, L. and A. |
| Ellis, Arthur Jackson,         | <i>Thornton,</i>                     | General Science.             |

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| Evvard, John Marcus,             | <i>Pontiac,</i>              | Agriculture.            |
| Ewing, Harriet Grace,            | <i>St. Joseph, Mich.,</i>    |                         |
|                                  | Household Science, Agr.      |                         |
| Eyer, Ruth Elizabeth,            | <i>Plainfield,</i>           | General, L. and A.      |
| Faber, Daniel Cleveland,         | <i>Paw Paw,</i>              | Electrical Eng'g.       |
| Fallon, Clara May,               | <i>Champaign,</i>            | General, L. and A.      |
| Fast, Emmett Emerson,            | <i>Princeville,</i>          | Mechanical Eng'g.       |
| Fisher, Ora Stanley,             | <i>Washburn,</i>             | Agriculture.            |
| Fisher, Robert Forrest,          | <i>Gibson City,</i>          | Electrical Eng'g.       |
| Forester, Robert Jackson,        | <i>DuQuoin,</i>              | Business, L. and A.     |
| Fox, Mabel Elizabeth,            | <i>Danville,</i>             | Household Science, Agr. |
| Fullenwider, Alice Evelyn,       | <i>Mechanicsburg,</i>        | Edu., L. and A.         |
| Gailey, Rowena Lucille,          | <i>Ashland,</i>              | Library, L. and A.      |
| Gash, Charles Milburne,          | <i>Macomb,</i>               | General Science.        |
| Gass, Martin John,               | <i>Danville,</i>             | Civil Eng'g.            |
| Gibson, Miles Otto,              | <i>Urbana,</i>               | Mechanical Eng'g.       |
| Gillespie, Paul,                 | <i>Sterling,</i>             | Architecture.           |
| Gillette, Della May,             | <i>Traverse City, Mich.,</i> |                         |
|                                  | General, L. and A.           |                         |
| Gilstrap, Eugene Franklin,       | <i>Tacoma, Wash.,</i>        | Architecture.           |
| Golden, Charles Dunning,         | <i>Chicago,</i>              | Civil Eng'g.            |
| Gonnerman, Harrison Frederick,   | <i>Dixon,</i>                | Civil Eng'g.            |
| Goodspeed, Frank,                | <i>Joliet,</i>               | Architectural Eng'g.    |
| Grady, Paul L,                   | <i>Bloomington,</i>          | Civil Eng'g.            |
| Grant, David John,               | <i>DeKalb,</i>               | Civil Eng'g.            |
| Gregory, Lenna Mabel,            | <i>Moweaqua,</i>             | General, L. and A.      |
| Gregory, Myrtle Minnie,          | <i>Moweaqua,</i>             | General, L. and A.      |
| Gridley, Clara Louise,           | <i>Virginia,</i>             | Library, L. and A.      |
| Grosh, Elizabeth Phyllis,        | <i>Mendon,</i>               | Household Science, Agr. |
| Grubel, Edward Alexander,        | <i>Decatur,</i>              | Civil Eng'g.            |
| Gunthorp, James Monroe,          | <i>Chicago,</i>              | Medical.                |
| Haase, Elmer Joseph,             | <i>Oak Park,</i>             | General, L. and A.      |
| Hachmeister, George John Ernest, | <i>Chicago,</i>              | Mechanical Eng'g.       |
| Hagnauer, Arno Walter,           | <i>Highland,</i>             | Chemistry.              |
| Haines, Arthur Carleton,         | <i>Gibson City,</i>          | General, L. and A.      |
| Haines, Mary Martha,             | <i>Champaign,</i>            | Music.                  |
| Hall, Edward Leverick,           | <i>Danville,</i>             | General, L. and A.      |
| Hall, Ethel Lottie,              | <i>Urbana,</i>               | General, L. and A.      |
| Hall, Ward Elmo,                 | <i>LaMoille,</i>             | Electrical Eng'g.       |
| Hamilton, Gene,                  | <i>Dwight,</i>               | General, L. and A.      |
| Hamilton, Virginia Louise,       | <i>Ashland,</i>              | General, L. and A.      |

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| Hampton, Ira,               | <i>Muscatine, Ia.,</i>  | Electrical Eng'g.       |
| Hanmore, John Leon,         | <i>Urbana,</i>          | General, L. and A.      |
| Hanson, Frank Lawrence,     | <i>Chicago,</i>         | Electrical Eng'g.       |
| Hanson, Mabel Irene,        | <i>Urbana,</i>          | Music.                  |
| Harder, Rubey Osgood,       | <i>Lockport,</i>        | Civil Eng'g.            |
| Harper, Homer Williamson.   | <i>Urbana,</i>          | Architecture.           |
| Harris, Albert Jesse,       | <i>Springfield,</i>     | Electrical Eng'g.       |
| Harrison, Florence,         | <i>Danville,</i>        | Household Science, Agr. |
| Hasson, Harry Bovard,       | <i>Moline,</i>          | Chemistry.              |
| Hatten, Frank Wyatt,        | <i>Delavan,</i>         | Electrical Eng'g.       |
| Hayes, Augustus Washington, | <i>Pleasant Plains,</i> | Agriculture.            |
| Haynes, Mark Ross,          | <i>LaSalle,</i>         | Civil Eng'g.            |
| Hazard, Lee Herbert,        | <i>Dixon,</i>           | Electrical Eng'g.       |
| Helfrich, William Noel,     | <i>Carthage,</i>        | General, L. and A.      |
| Hellstrom, Klaus Edward,    | <i>Evanston,</i>        | Electrical Eng'g.       |
| Herrick, Hope,              | <i>Farmer City,</i>     | General, L. and A.      |
| Hess, Abigail Maria.        | <i>Oak Park,</i>        | Household Sci., Agr.    |
| Hess, Lottie,               | <i>Philo,</i>           | General, L. and A.      |
| Hesse, Lawrence Gere.       | <i>Evanston,</i>        | Electrical Eng'g.       |
| Heyle, Franklin Theodore,   | <i>Peoria,</i>          | Civil Eng'g.            |
| Hill, Nathan Richard.       | <i>Champaign,</i>       | Civil Eng'g.            |
| Hinds, Jesse Parker.        | <i>Newton,</i>          | Electrical Eng'g.       |
| Hobbs, Horace Gaylord,      | <i>Pontiac,</i>         | Electrical Eng'g.       |
| Hoffman, Edward Martin.     | <i>Dwight,</i>          | Civil Eng'g.            |
| Honeywell, Gilbert Charles. | <i>Hoopeston,</i>       | Agriculture.            |
| Hoodwin, Hyman Jacob,       | <i>Chicago,</i>         | Civil Eng'g.            |
| Howe, Mary,                 | <i>Urbana,</i>          | Household Science, Agr. |
| Howser, Theron Robinson,    | <i>Lincoln,</i>         | Civil Eng'g.            |
| Hudson, Harry Henry,        | <i>Galva,</i>           | Civil Eng'g.            |
| Hueckel, William Clemence,  | <i>Caseyville,</i>      | Civil Eng'g.            |
| Huff, Walter William,       | <i>Sullivan,</i>        | Civil Eng'g.            |
| Hummel, William Grandville, | <i>Urbana,</i>          | Agriculture.            |
| Hunt, Agnes,                | <i>Ridott,</i>          | Household Science, Agr. |
| Hunt, A Frazier,            | <i>Chicago,</i>         | Business, L. and A.     |
| Hursh, Ralph Kent.          | <i>Macomb,</i>          | Mechanical Eng'g.       |
| Hutchinson, Ella May.       | <i>Odell, Neb.,</i>     | General, L. and A.      |
| Huth, Walter Henry.         | <i>Chicago,</i>         | Mechanical Eng'g.       |
| Irwin, Burr Polk,           | <i>Quincy,</i>          | Mechanical Eng'g.       |
| James, Delos Lawrence.      | <i>Huntley,</i>         | Agriculture.            |
| James, Robert Bullis.       | <i>Oak Park,</i>        | Civil Eng'g.            |
| Jensen, Elof Bernhardt.     | <i>Chicago,</i>         | Agriculture.            |

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| Johanning, Paul Martin,         | <i>Champaign,</i>       | Mechanical Eng'g.            |
| Johnson, George Koser,          | <i>Mt. Vernon,</i>      | Business, L. and A.          |
| Johnson, Leslie Virgil,         | <i>Taylorville,</i>     | Architecture.                |
| Jordan, Erwin Byron,            | <i>Orion,</i>           | Civil Eng'g.                 |
| Kahlert, Herbert Edward,        | <i>Carlyle,</i>         | Electrical Eng'g.            |
| Kegley, Franklin Thompson, Jr., | <i>Urbana,</i>          | Architecture.                |
| Kelso, Ruth,                    | <i>Columbus, O.,</i>    | General, L. and A.           |
| Kendall, Helen Virginia,        | <i>Princeton,</i>       | Household Science, L. and A. |
| Kerch, Walter Washington,       | <i>Freeport,</i>        | Civil Eng'g.                 |
| Kerr, Bartlett Martin,          | <i>Urbana,</i>          | Mechanical Eng'g.            |
| Kirk, Todd,                     | <i>Kirksville, Mo.,</i> | Civil Eng'g.                 |
| Klewer, Arthur Leonard,         | <i>Chicago,</i>         | Architecture.                |
| Lanferman, Walter Edward,       | <i>Chicago,</i>         | Electrical Eng'g.            |
| Lange, Ida Louise,              | <i>Chicago,</i>         | Library, L. and A.           |
| Langford, Fred Henderson,       | <i>Paxton,</i>          | Civil Eng'g.                 |
| Large, Zelma Ria,               | <i>Oxaneco,</i>         | General, L. and A.           |
| Larimer, Robert Sherman,        | <i>Evanston,</i>        | Civil Eng'g.                 |
| Latzer, Robert Louis,           | <i>Highland,</i>        | Agriculture.                 |
| Leidendeker, Frank Earl,        | <i>Champaign,</i>       | Mechanical Eng'g.            |
| Lendrum, Ethel,                 | <i>Chicago,</i>         | General, L. and A.           |
| Lodge, Fred Sterling,           | <i>Monticello,</i>      | Chemical Eng'g.              |
| Long, Arthur Theodore,          | <i>St. Louis, Mo.,</i>  | General, L. and A.           |
| Loomis, Nellie Alice,           | <i>Chicago,</i>         | General Science.             |
| Loutzenhiser, Ernest H,         | <i>Danville,</i>        | Mechanical Eng'g.            |
| Love, Robert James,             | <i>Hoopeston,</i>       | Architecture.                |
| Lowry, Thomas Grover,           | <i>Upper Alton,</i>     | Civil Eng'g.                 |
| Lynch, Ralph Atkinson,          | <i>Peoria,</i>          | Chemical Eng'g.              |
| McArty, Charles Roy,            | <i>Champaign,</i>       | Civil Eng'g.                 |
| McComb, John Barnet,            | <i>Chicago,</i>         | Mechanical Eng'g.            |
| McCoy, Milton Howard,           | <i>Chicago Heights,</i> | Civil Eng'g.                 |
| McCullough, Frederick R,        | <i>Streator,</i>        | Business, L. and A.          |
| McDonald, Lewis,                | <i>Brozenstown,</i>     | Civil Eng'g.                 |
| McIntire, Ella Elliott,         | <i>Urbana,</i>          | General, L. and A.           |
| McKelvey, Arthur Wilson,        | <i>Sparta,</i>          | General, L. and A.           |
| McMillan, Matthew Hunter,       | <i>Cutler,</i>          | Electrical Eng'g.            |
| Madison, George,                | <i>Savanna,</i>         | Electrical Eng'g.            |
| Maguire, William Chester,       | <i>Urbana,</i>          | Business, L. and A.          |
| Malcolm, Howard Stout,          | <i>Roseville,</i>       | Civil Eng'g.                 |
| Mann, Howard Leslie,            | <i>Kankakee,</i>        | Electrical Eng'g.            |
| Marsh, Helen Althea,            | <i>Lacon,</i>           | General, L. and A.           |

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|--------------------------------|----------------------------|-------------------------|
| Martin, Fred Raymond,          | <i>Toluca,</i>             | Electrical Eng'g.       |
| Matteson, Sylvester Davis,     | <i>Monmouth,</i>           | General, L. and A.      |
| Matthews, Martha Marie,        | <i>Onarga,</i>             | Household Science, Agr. |
| Matthews, Nellie Pearl,        | <i>Clinton,</i>            | General, L. and A.      |
| Maxey, Harold LeRoy,           | <i>Urbana,</i>             | General, L. and A.      |
| Mayne, Louis Brawley,          | <i>Camden, Ind.,</i>       | Architecture            |
| Maze, Everett Andy,            | <i>Anna,</i>               | Electrical Eng'g.       |
| Melby, John Alexander,         | <i>Toronto, Ont.,</i>      | Civil Eng'g.            |
| Mellen, Arthur Franklin,       | <i>Amboy,</i>              | Chemical Eng'g.         |
| Melloy, Martin Aloysius,       | <i>Libertyville,</i>       | Civil Eng'g.            |
| Merry, Carl Emmett,            | <i>Urbana,</i>             | Mechanical Eng'g.       |
| Miller, Alvin Charles,         | <i>New Athens,</i>         | Mechanical Eng'g.       |
| Miller, Nelle Grant,           | <i>Champaign,</i>          | General, L. and A.      |
| Miner, Ada Mae,                | <i>Champaign,</i>          | General, L. and A.      |
| Mitchell, Harold Hanson,       | <i>Chicago,</i>            | Chemical Eng'g.         |
| Monier, James Henry,           | <i>Champaign,</i>          | Civil Eng'g.            |
| Moore, Joseph Kennedy,         | <i>Yorkville,</i>          | Ceramics.               |
| Morehouse, Frances Milton,     | <i>Toulon,</i>             | General, L. and A.      |
| Morris, James Edwin,           | <i>Congress Park,</i>      | Electrical Eng'g.       |
| Morton, James Felix,           | <i>Vienna,</i>             | Electrical Eng'g.       |
| Moss, Charles Taylor,          | <i>Urbana,</i>             | General, L. and A.      |
| Mullin, Glen Hawthorne,        | <i>Urbana,</i>             | General, L. and A.      |
| Munger, Guy Elmer,             | <i>Rock Island,</i>        | Mechanical Eng'g.       |
| Murray, Everett Bodman,        | <i>Chicago,</i>            | Civil Eng'g.            |
| Murrell, Benjamin Nathan,      | <i>Vienna,</i>             | General, L. and A.      |
| Mussenden, William Sutherland, | <i>Roswell, N.M.,</i>      | Civil Eng'g.            |
| Needles, Elmer Henry,          | <i>Belleville,</i>         | Agriculture.            |
| Neubauer, Ella Cora,           | <i>Highland,</i>           | General, L. and A.      |
| Neuman, John Adams,            | <i>Springfield,</i>        | Electrical Eng'g.       |
| Newcomb, Jessie Ruth,          | <i>Champaign,</i>          | General, L. and A.      |
| Nicodemus, Frederick Bowman,   | <i>Forreston,</i>          | Civil Eng'g.            |
| Niederman, Gertrude,           | <i>Chicago,</i>            | Chemistry.              |
| Nitz, Ingo Charles,            | <i>Chicago,</i>            | Electrical Eng'g.       |
| Norris, Ralph Varney,          | <i>Chicago,</i>            | Agriculture.            |
| North, Selah Hawley,           | <i>Lockport,</i>           | Electrical Eng'g.       |
| Nydegger, Charlotte Marie,     | <i>Danville,</i>           | Household Science, Agr. |
| Nydegger, John,                | <i>Danville,</i>           | Mechanical Eng'g.       |
| Olmsted, George Chauncey,      | <i>Chattanooga, Tenn.,</i> | Mech. Eng'g.            |
| Olsen, Sharon Marmo,           | <i>Morgan Park,</i>        | Civil Eng'g.            |
| Orndorff, Frank Millikin,      | <i>Delavan,</i>            | Agriculture.            |
| Ostrander, Mabel Verona,       | <i>Chicago,</i>            | General, L. and A.      |

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| Paddock, Charles Albert,     | <i>Aurora,</i>                 | Civil Eng'g.            |
| Parker, Washington Warner,   | <i>Elgin,</i>                  | Electrical Eng'g.       |
| Patch, Harold Knowles,       | <i>Rushville,</i>              | Electrical Eng'g.       |
| Penn, Albert,                | <i>Camden, Ind.,</i>           | Electrical Eng'g.       |
| Perry, Winifred Almina,      | <i>Urbana,</i>                 | General, L. and A.      |
| Peterson, John Bernard,      | <i>Oak Park,</i>               | Chemistry.              |
| Pettit, Joseph Flagler,      | <i>Clifton Springs, N. Y.,</i> | Civil Eng'g.            |
| Pettit, Roswell Talmage,     | <i>Ottawa,</i>                 | Medical.                |
| Pfisterer, George Edward,    | <i>Sterling,</i>               | Mecnanical Eng'g.       |
| Phillips Claude Watson,      | <i>Marion,</i>                 | Civil Eng'g.            |
| Phillips, Lawrence Clifford, | <i>Streator,</i>               | Electrical Eng'g.       |
| Phillips, Victor Leo,        | <i>Mt. Carroll,</i>            | Civil Eng'g.            |
| Pillinger, Ralph Alfred,     | <i>Chicago,</i>                | Mechanical Eng'g.       |
| Pond, Ethel Claire,          | <i>Sycamore,</i>               | General Science.        |
| Ponzer, Emma,                | <i>Henry,</i>                  | General, L. and A.      |
| Pope, Charles Samuel,        | <i>Moline,</i>                 | Electrical Eng'g.       |
| Pope, Henry Patterson,       | <i>Moline,</i>                 | Mechanical Eng'g.       |
| Porterfield, Nellie Mildred, | <i>Fairmount,</i>              | General, L. and A.      |
| Powell, Clure Morris,        | <i>Bowen,</i>                  | Civil Eng'g.            |
| Powers, Alice Josephine,     | <i>Tiskilwa,</i>               | Household Science, Agr. |
| Powers, Hiram James,         | <i>Taylorville,</i>            | Civil Eng'g.            |
| Powers, Wilbur Lewis,        | <i>Tiskilwa,</i>               | Agriculture.            |
| Queen, Walter,               | <i>Evansville, Ind.,</i>       | Electrical Eng'g.       |
| Raab, Frank Henry,           | <i>Belleville,</i>             | Medical.                |
| Ray, Hugh Light,             | <i>Chicago,</i>                | Mechanical Eng'g.       |
| Reams, Herman Emerson,       | <i>Chicago,</i>                | Chemical Eng'g.         |
| Rebman, Gail,                | <i>Frederick,</i>              | General, L. and A.      |
| Reece, Wade W,               | <i>Rossville,</i>              | Electrical Eng'g.       |
| Reynolds, Fred Martin,       | <i>Riverside,</i>              | Civil Eng'g.            |
| Rich, Daniel Homer,          | <i>Washington,</i>             | General, L. and A.      |
| Risser, Ralph Granville,     | <i>Kankakee,</i>               | Agriculture.            |
| Roberts, Owen Haworth,       | <i>Maryville, Mo.,</i>         | Arch. Eng'g.            |
| Robertson, Roy Clifton,      | <i>Peoria,</i>                 | Mechanical Eng'g.       |
| Robinette, Eva Mae,          | <i>Urbana,</i>                 | Music.                  |
| Robinson, Charles Jason,     | <i>Manteno,</i>                | Agriculture.            |
| Robinson, Raymond Elder,     | <i>Oak Park,</i>               | Mechanical Eng'g.       |
| Robinson, Willis Singleton,  | <i>Champaign,</i>              | Mechanical Eng'g.       |
| Robson, Carl David,          | <i>Chicago,</i>                | Civil Eng'g.            |
| Rohrer, Minnie Genevieve,    | <i>Somonauk,</i>               | General, L. and A.      |
| Roney, Ralph Todd,           | <i>Decatur,</i>                | Medical.                |

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|--------------------------------|-----------------------------|-------------------------|
| Rook, Mary Susie,              | <i>Bowen,</i>               | Medical.                |
| Ropp, Franklin Newton,         | <i>Chicago,</i>             | Civil Eng'g.            |
| Routson, Fred John,            | <i>Toledo, O.,</i>          | Civil Eng'g.            |
| Rowe, Howard Lester,           | <i>Elgin,</i>               | Civil Eng'g.            |
| Rutledge, Nellie Irene,        | <i>Mt. Sterling,</i>        | General, L. and A.      |
| Ryan, Edwin Groves,            | <i>Chicago,</i>             | Business, L. and A.     |
| Sampson, Harry Coolidge.       | <i>Highland Park,</i>       | Civil Eng'g.            |
| Sanders, John James,           | <i>Chicago,</i>             | Civil Eng'g.            |
| Schertz, Albert Charles,       | <i>Tiskilwa,</i>            | Business, L. and A.     |
| Schulzke, William Henry,       | <i>Springfield,</i>         | Architecture.           |
| Schumacher, Ramon              | <i>St. Joseph, Mo.,</i>     | Architecture.           |
| Schwerin, Arthur,              | <i>Burlington, Iowa,</i>    | Civil Eng'g.            |
| Scovill, Hiram Thompson,       | <i>Rockford,</i>            | Business, L. and A.     |
| Scrogin, Edith Naomi,          | <i>Lexington,</i>           | General, L. and A.      |
| Seeley, Marena,                | <i>St. Joseph, Mo.,</i>     | Gen'l, L. and A.        |
| Sevilla, Hermenegildo,         | <i>Manila, P. I.,</i>       | Agriculture             |
| Shackell, Leon Francis,        | <i>Urbana,</i>              | Chemistry.              |
| Shannon, Agnes Nancy,          | <i>Freeport,</i>            | Household Sci., Agr.    |
| Shaw, James William,           | <i>Springfield,</i>         | Mechanical Eng'g.       |
| Sheppard, Lawrence Dunlap,     | <i>Keokuk, Iowa,</i>        | Civil Eng'g.            |
| Sheriff, Ralph Edwin,          | <i>Reynolds,</i>            | General, L. and A.      |
| Shields, Charles Culver,       | <i>Highland Park,</i>       | Mech. Eng'g.            |
| Shipman, Louise,               | <i>De Kalb,</i>             | General, L. and A.      |
| Sihler, George Albert, Jr.,    | <i>Litchfield,</i>          | Medical.                |
| Simer, Jerome Kenneth,         | <i>Champaign,</i>           | General, L. and A.      |
| Slawson, Harry Herbert,        | <i>Harvard,</i>             | General, L. and A.      |
| Smith, Claire Howland Wallace, | <i>Urbana,</i>              | Civil Eng'g.            |
| Smith, Ellis Edwin,            | <i>Joliet,</i>              | Electrical Eng'g.       |
| Smith, Fleda Mary,             | <i>Urbana,</i>              | Household Science, Agr. |
| Smith, Leslie Alden,           | <i>Champaign,</i>           | Business, L. and A.     |
| Smith, Mabel,                  | <i>Urbana,</i>              | General, L. and A.      |
| Smith, Rufus William,          | <i>Urbana,</i>              | Agriculture.            |
| Snyder, Paul Noble,            | <i>Fulton,</i>              | Business, L. and A.     |
| Snyder, Stanley S,             | <i>Danville,</i>            | General, L. and A.      |
| Solberg, Leif Peder Björgvin,  | <i>Christiania, Norway,</i> | Mechanical Eng'g.       |
| Sonntag, Elsie Roberta,        | <i>Plainfield,</i>          | General, L. and A.      |
| Sonntag, Viola Hope,           | <i>Plainfield,</i>          | General, L. and A.      |
| Southwick, Joe Dare,           | <i>Flora,</i>               | General, L. and A.      |
| Spencer, Fannie Grace Clara,   | <i>Belleville,</i>          | Chemistry.              |
| Stair, Jacob Leander, Jr.,     | <i>Altamont,</i>            | Electrical Eng'g.       |

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|----------------------------|-------------------------|-------------------------|
| Stehman, John Miller,      | <i>Pasadena, Cal.,</i>  | Electrical Eng'g.       |
| Stephens, Herbert Coles,   | <i>Sycamore,</i>        | Electrical Eng'g.       |
| Stevenson, James Ross,     | <i>Monmouth,</i>        | Electrical Eng'g.       |
| Stevenson, Milton Leonard, | <i>Mason City,</i>      | General, L. and A.      |
| Stewart, Charles Arthur,   | <i>Genoa,</i>           | Agriculture.            |
| Stewart, Harold Wilson,    | <i>Urbana,</i>          | Agriculture.            |
| Stewart, John Wesley,      | <i>Evanston,</i>        | Civil Eng'g.            |
| Stiff, Ross McGehee,       | <i>Harrisburg,</i>      | Chemistry               |
| Stone, Paul Prime,         | <i>Lincoln,</i>         | Business, L. and A.     |
| Storer, Frances Louise,    | <i>Champaign,</i>       | General, L. and A.      |
| Stowe, Loyd Richard,       | <i>Greenville,</i>      | Mechanical Eng'g.       |
| Strauch, Bernard Andrew,   | <i>Chadwick,</i>        | General, L. and A.      |
| Streid, Joseph Benjamin,   | <i>Metamora,</i>        | Medical.                |
| Stults, Elmer Emerson,     | <i>Evanston,</i>        | Agriculture.            |
| Sturges, Howard Putnam,    | <i>Oak Park,</i>        | Architecture.           |
| Styles, Edward Anthony,    | <i>Champaign,</i>       | Electrical Eng'g.       |
| Sudbrink, Warren Clifford, | <i>Beardstown,</i>      | Agriculture.            |
| Surman, Hugo Ewald,        | <i>Carlinville,</i>     | Civil Eng'g.            |
| Swannell, Frederick Wells, | <i>Kankakee,</i>        | Mechanical Eng'g.       |
| Swezey, Roswell Beal,      | <i>Hinsdale,</i>        | Mechanical Eng'g.       |
| Swigart, Lois Edna,        | <i>Champaign,</i>       | General, L. and A.      |
| Switzer, Francis A,        | <i>Macomb,</i>          | Electrical Eng'g.       |
| Switzer, Vincent Westfall, | <i>LaFayette, Ind.,</i> | Civil Eng'g.            |
| Taylor, George Alexander,  | <i>St. Louis, Mo.,</i>  | Civil Eng'g.            |
| Taylor, Virginia Randolph, | <i>Owensboro, Ky.,</i>  | Gen'l, L. and A.        |
| Tear, Herbert Lloyd,       | <i>Chicago,</i>         | Electrical Eng'g.       |
| TenBroeck, Carlon,         | <i>Parsons, Kas.,</i>   | Medical.                |
| Terrill, Fred,             | <i>Colchester,</i>      | Mechanical Eng'g.       |
| Thomas, Jennie Insley,     | <i>Homer,</i>           | Household Science, Sci. |
| Thomas, Minnie Etta,       | <i>Chicago,</i>         | General, L. and A.      |
| Thomson, Jennie Helen,     | <i>Paxton,</i>          | General, L. and A.      |
| Tice, Evert Homer,         | <i>Greenview,</i>       | General, L. and A.      |
| Toland, Jessie May,        | <i>Urbana,</i>          | General, L. and A.      |
| Toops, Claude,             | <i>Champaign,</i>       | Architectural Eng'g.    |
| Toops, Mack,               | <i>Champaign,</i>       | Civil Eng'g.            |
| Tucker, Burton Floyd,      | <i>Anna,</i>            | Electrical Eng'g.       |
| Tucker, Jesse Orrin,       | <i>Champaign,</i>       | Electrical Eng'g.       |
| Turner, Hazle D,           | <i>Atlanta,</i>         | Business, L. and A.     |
| Turnock, Lawrence Charles, | <i>La Grange,</i>       | Chemical Eng'g.         |
| Underwood, Wilbert Eugene, | <i>Chicago,</i>         | Electrical Eng'g.       |
| Vandagriff, Carl William,  | <i>Cantrall,</i>        | Civil Eng'g.            |

|                                  |                           |                         |
|----------------------------------|---------------------------|-------------------------|
| Van Galder, Cora May,            | <i>Rock Island,</i>       | Household Sci., S.      |
| Van Inwagen, Frank,              | <i>Momence,</i>           | Mechanical Eng'g.       |
| Van Petten, Robert Milton,       | <i>Champaign,</i>         | Civil Eng'g.            |
| Waddell, Charles Archibald,      | <i>Princeton,</i>         | Electrical Eng'g.       |
| Wagner, Fritz, Jr.,              | <i>Chicago,</i>           | Architecture.           |
| Wagner, Robert Charles, Jr.,     | <i>Champaign,</i>         | Civil Eng'g.            |
| Wagoner, John Dowe,              | <i>Fort Madison, Ia.,</i> | Gen'l, L. and A.        |
| Wardall, William Jed,            | <i>Tuscola,</i>           | Medical.                |
| Warder, Evelyn,                  | <i>Marion,</i>            | Household Science, Agr. |
| Wasson, Walter Williams,         | <i>Chrisman,</i>          | Medical.                |
| Watters, James Merton,           | <i>Watseka,</i>           | General, L. and A.      |
| Waughtel, Mrs. Nellie Elizabeth, | <i>Cuba,</i>              | Household Science, Agr. |
| Way, George Fritz,               | <i>Pocor,</i>             | Medical.                |
| Weatherhead, Drury Lee,          | <i>Moline,</i>            | Chemical Eng'g.         |
| Weber, Emil August,              | <i>Champaign,</i>         | Civil Eng'g.            |
| Webster, Robert Lorenzo,         | <i>Washington, D. C.,</i> | Gen'l Science.          |
| Weinberg, Nina Mary,             | <i>Rushville,</i>         | General, L. and A.      |
| Welch, George Richard,           | <i>Joliet,</i>            | Electrical Eng'g.       |
| Wennholz, Emma Sophie,           | <i>Dundee,</i>            | General, L. and A.      |
| Wernham, Emma Lilly,             | <i>Marengo,</i>           | General, L. and A.      |
| Werno, Cecilia Katheryn,         | <i>La Grange,</i>         | General, L. and A.      |
| White, Anna Blanchard,           | <i>St. Joseph, Mo.,</i>   | Gen'l, L. and A.        |
| White, Earl Archibald,           | <i>Antioch,</i>           | Agriculture.            |
| White, Wiebe Alice,              | <i>Chicago,</i>           | General, L. and A.      |
| Wickersham, Clarence Edmund,     | <i>Roseville,</i>         | Electrical Eng'g.       |
| Wilkinson, Stanley E,            | <i>Kankakee,</i>          | Business, L. and A.     |
| Williams, Howard Chandler,       | <i>Elgin,</i>             | Business, L. and A.     |
| Williamson, Florence,            | <i>Houston, Texas,</i>    | Gen'l, L. and A.        |
| Wilson, Lelia Sara,              | <i>Mason City,</i>        | General, L. and A.      |
| Wilson, Lester Roy,              | <i>Foosland,</i>          | General, L. and A.      |
| Wilson, Willabelle Bernice,      | <i>Champaign,</i>         | General Science.        |
| Winn, Clarence Clyde,            | <i>Whitehall,</i>         | Electrical Eng'g.       |
| Woodbridge, Mary Emily,          | <i>Urbana,</i>            | General Science.        |
| Wright, Helen Gertrude,          | <i>Toulon,</i>            | General, L. and A.      |
| Wright, Julius Milton,           | <i>Dwight,</i>            | Mechanical Eng'g.       |
| Wright, Milton Raleigh,          | <i>New London, Wis.,</i>  | Elect. Eng'g.           |
| Wussow, August Frank Daniel,     | <i>Chicago,</i>           | Chemical Eng'g.         |
| Wyatt, Kirke Kingsley,           | <i>LaSalle,</i>           | Electrical Eng'g.       |
| Yardley, Ralph Waldo Emerson,    | <i>Mansfield, O.,</i>     | Architecture.           |
| Yates, John William,             | <i>Dubuque, Ia.,</i>      | Mechanical Eng'g.       |
| Young, James Nicholas, Jr.,      | <i>Chicago,</i>           | Civil Eng'g.            |

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|------------------------|--------------------------|--------------------|
| Young, Roy Mercer,     | <i>Springfield,</i>      | Civil Eng'g.       |
| Young, Thomas Earl,    | <i>Lewistown,</i>        | Mechanical Eng'g.  |
| Zaerr, Byron Leslie,   | <i>Chicago,</i>          | Electrical Eng'g.  |
| Ziesing, Henry Hanna,  | <i>Glencoe,</i>          | Civil Eng'g.       |
| Zilly, Marie Louise,   | <i>Champaign,</i>        | General, L. and A. |
| Zink, Herbert Charles, | <i>St. Clair, Mich.,</i> | Mechanical Eng'g.  |

## FRESHMEN

|                               |                       |                         |
|-------------------------------|-----------------------|-------------------------|
| Abbott, Elizabeth Mabelle,    | <i>Hoopeston,</i>     | Library, L. and A.      |
| Adams, Glen Lloyd,            | <i>Moweaqua,</i>      | General, L. and A.      |
| Adams, Harold Wallace,        | <i>Danville,</i>      | Architecture.           |
| Aikman, Arthur Bartley,       | <i>Marion,</i>        | General, L. and A.      |
| Aldrich, Lloyd,               | <i>Galesburg,</i>     | Civil Eng'g.            |
| Alexander, John Fielder,      | <i>Galva,</i>         | Civil Eng'g.            |
| Allen, George Adams,          | <i>Staunton, Va.,</i> | Agriculture.            |
| *Allen, Jonathan Bowers,      | <i>Delavan,</i>       | Agriculture.            |
| Almy, Lloyd Huber,            | <i>Sterling,</i>      | Chemical Eng'g.         |
| Alverson, Maude Lena,         | <i>Urbana,</i>        | General, L. and A.      |
| Ames, Albert Wilson,          | <i>Chicago,</i>       | Mechanical Eng'g.       |
| Anderson, Florence Elizabeth, | <i>Urbana,</i>        | Household Science, Agr. |
| Anderson, Howard Fraser,      | <i>Urbana,</i>        | Architectural Eng'g.    |
| Anderson, Josie Annette,      | <i>Roseville,</i>     | General, L. and A.      |
| Anderson, Martin Joel,        | <i>Moline,</i>        | Mechanical Eng'g.       |
| Anderson, Robert Paul,        | <i>Onarga,</i>        | Civil Eng'g.            |
| Applegate, Annie Mary,        | <i>Atlanta,</i>       | General, L. and A.      |
| Applegate, Arthur Leslie,     | <i>Atlanta,</i>       | Agriculture.            |
| Arbogast, Fred Lester,        | <i>Farmer City,</i>   | Mathematics, S.         |
| Armstrong, Robert,            | <i>Reno,</i>          | Civil Eng'g.            |
| Ashdown, Harry Edward,        | <i>Port Byron,</i>    | Mechanical Eng'g.       |
| Ashley, Edith Winifred,       | <i>Champaign,</i>     | General, L. and A.      |
| Ashley, Leon Eaton Cummins,   | <i>Springfield,</i>   | Architectural Eng'g.    |
| Attebery, Jesse Stephen,      | <i>Moweaqua,</i>      | Electrical Eng'g.       |
| Bacon, Maude Alice,           | <i>Champaign,</i>     | Music.                  |
| Bailey, Ernest Henning,       | <i>Geneva,</i>        | Electrical Eng'g.       |
| Bainum, Glenn Cliffe,         | <i>Paxton,</i>        | General, L. and A.      |
| Balch, Eva,                   | <i>Lerna,</i>         | General, L. and A.      |
| Baldwin, Frank Boyd,          | <i>Chicago,</i>       | Civil Eng'g.            |
| Balis, William Henry,         | <i>St. Charles,</i>   | Agriculture.            |
| Ball, Albert Newton,          | <i>Danville,</i>      | Electrical Eng'g.       |
| Banks, George S,              | <i>Rockford,</i>      | Electrical Eng'g.       |
| Banks, William Stephen,       | <i>Milan,</i>         | General, L. and A.      |

\*Deceased

|                           |                                |                     |
|---------------------------|--------------------------------|---------------------|
| Bantug, José Policarpio,  | <i>San Isidro, N.E., P.I.,</i> | Medical.            |
| Barclay, Howard Ellis,    | <i>Covell,</i>                 | Medical.            |
| Barnes, Oma,              | <i>Harrisburg,</i>             | Mathematics, S.     |
| Barrett, Sarah Anita,     | <i>Butler,</i>                 | General, L. and A.  |
| Barry, Pierce,            | <i>Pontiac,</i>                | Mechanical Eng'g.   |
| Barton, Christine Dodge,  | <i>Champaign,</i>              | General, L. and A.  |
| Barton, Percy Levi,       | <i>Champaign,</i>              | Mechanical Eng'g.   |
| Bass, Nellie Jane,        | <i>Red Oak, Ia.,</i>           | General, L. and A.  |
| Bateman, James,           | <i>Rockford,</i>               | Electrical Eng'g.   |
| Batman, Delbert Ellis,    | <i>Newton,</i>                 | Civil Eng'g.        |
| Baumann, George Stebbins, | <i>Springfield,</i>            | Electrical Eng'g.   |
| Baume, Henry Bergh,       | <i>Galena,</i>                 | General, L. and A.  |
| Baxter, Charles Bayard,   | <i>Nauvoo,</i>                 | Mechanical Eng'g.   |
| Beach, Bayard Macknet,    | <i>Huron, S. D.,</i>           | Electrical Eng'g.   |
| Beam, Carl Richard,       | <i>Canton,</i>                 | Civil Eng'g.        |
| Bear, Louis Raymond,      | <i>Ludlow,</i>                 | Business, L. and A. |
| Beardsley, George Davis,  | <i>Kansas City, Mo.,</i>       | Business, L. and A. |
| Beck, Frederick,          | <i>Harvey,</i>                 | Civil Eng'g.        |
| Beck, Ralph Osborne,      | <i>Sioux City, Ia.,</i>        | Mechanical Eng'g.   |
| Beeby, Frank Fairwell,    | <i>La Salle,</i>               | Civil Eng'g.        |
| Bell, Charles Jackson,    | <i>Pontiac,</i>                | Civil Eng'g.        |
| Bell, Herbert Eugene,     | <i>Sterling,</i>               | Electrical Eng'g.   |
| Bengel, George Adam,      | <i>Springfield,</i>            | Civil Eng'g.        |
| Bennett, Charles Marion,  | <i>Homer,</i>                  | Mechanical Eng'g.   |
| Bennett, Frank Myer,      | <i>Chicago,</i>                | Civil Eng'g.        |
| Bennett, Harvey Childs,   | <i>Aurora,</i>                 | Chemical Eng'g.     |
| Bernhardt, Caroline,      | <i>Chicago,</i>                | General, L. and A.  |
| Bestor, Horace Anderson,  | <i>Peoria,</i>                 | Civil Eng'g.        |
| Bevis, Daily George,      | <i>Newton,</i>                 | Civil Eng'g.        |
| Beyrer, William Herbert,  | <i>South Bend, Ind.,</i>       | Architecture.       |
| Black, Grace Josephine,   | <i>Urbana,</i>                 | Music               |
| Blair, Alice Ledlie,      | <i>Barry,</i>                  | General, L. and A.  |
| Blake, Katherine Mary,    | <i>Watseka,</i>                | General, L. and A.  |
| Blomfeldt, Allen Axel,    | <i>Chicago,</i>                | Mechanical Eng'g.   |
| Blount, John Darwin,      | <i>Western Springs,</i>        | Business, L. and A. |
| Boardman, Harry Clow,     | <i>Plainfield,</i>             | Civil Eng'g.        |
| Boner, Faerie Virginia,   | <i>El Paso,</i>                | General, L. and A.  |
| Boner, Glenna Mildred,    | <i>El Paso,</i>                | General, L. and A.  |
| Bonham, Winne Martin,     | <i>Macomb,</i>                 | Civil Eng'g.        |

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|----------------------------|-----------------------------|---------------------|
| Boone, Homer Thornton,     | <i>Shelbyville,</i>         | Electrical Eng'g.   |
| Boone, Thomas Chester,     | <i>Urbana,</i>              | General, L. and A.  |
| Boston, Frantz William,    | <i>Yorkville,</i>           | Business, L. and A. |
| Boston, Irma Willard,      | <i>Yorkville,</i>           | General, L. and A.  |
| Bowditch, Roy,             | <i>Urbana,</i>              | Electrical Eng'g.   |
| Bowen, Sherman Blaine,     | <i>Savanna,</i>             | Mechanical Eng'g.   |
| Boynton, Napoleon Hiram,   | <i>Chicago,</i>             | Electrical Eng'g.   |
| Brainard, Ralph Fletcher,  | <i>Harvard,</i>             | General, L. and A.  |
| Braley, Howard Dixon,      | <i>Virden,</i>              | Electrical Eng'g.   |
| Brand, Royden Earl,        | <i>Danville,</i>            | Agriculture.        |
| Brauer, Lydia Marie,       | <i>San Jose,</i>            | General, L. and A.  |
| Bredehoft, Mabel Armena,   | <i>Danville,</i>            | General, L. and A.  |
| Breitenfeld, Richard,      | <i>Harvard,</i>             | Civil Eng'g.        |
| Brewer, Cecil Laverne,     | <i>Champaign,</i>           | Mechanical Eng'g.   |
| Brinkman, Carl Edward,     | <i>Warsaw,</i>              | Electrical Eng'g.   |
| Brokaw, Mary Isabella,     | <i>Granville,</i>           | Library, L. and A.  |
| Brown, Edward Webb,        | <i>Metropolis,</i>          | Electrical Eng'g.   |
| Brown, Harry Elwood,       | <i>Morris,</i>              | Electrical Eng'g.   |
| Brown, Horace Trowbridge,  | <i>St. Louis, Mo.,</i>      | Mechanical Eng'g.   |
| Brundage, Avery,           | <i>Chicago,</i>             | Civil Eng'g.        |
| Bryan, Arthur Lynn,        | <i>Forest City, Ia.,</i>    | Medical             |
| Buker, Edward,             | <i>Chicago,</i>             | Civil Eng'g.        |
| Bullard, Emma Munsell,     | <i>Mechanicsburg,</i>       | General, L. and A.  |
| Bullock, Edith Ray,        | <i>El Paso,</i>             | General, L. and A.  |
| Burgett, Jay Thomas,       | <i>Newman,</i>              | Business, L. and A. |
| Burke, Paul,               | <i>Three Rivers, Mich.,</i> | Mechanical Eng'g.   |
| Burrell, Clarence Henry,   | <i>Effingham,</i>           | General, L. and A.  |
| Burt, John Little,         | <i>Chicago,</i>             | Mechanical Eng'g.   |
| Busey, Kate Wheeler,       | <i>Urbana,</i>              | Art and Design.     |
| Bushong, Mabel Leone,      | <i>Danville,</i>            | General, L. and A.  |
| Butler, Comfort Straight,  | <i>Cairo,</i>               | General, L. and A.  |
| Butler, William Arthur,    | <i>Kenosha, Wis.,</i>       | Electrical Eng'g.   |
| Cabeen, Richard McPherren, | <i>Seaton,</i>              | Architecture.       |
| Cairns, George Dean,       | <i>Richmond,</i>            | Business, L. and A. |
| Campbell, Allan Berry,     | <i>La Harpe,</i>            | Electrical Eng'g.   |
| Carlson, Carl Bernhardt,   | <i>Moline,</i>              | Civil Eng'g.        |
| Carpenter, Besse Eloese,   | <i>Ottawa,</i>              | General, L. and A.  |
| Carper, John Fisher,       | <i>Buda,</i>                | Electrical Eng'g.   |
| Carr, John Robinson,       | <i>Bowling Green Mo.,</i>   | Elect. Eng'g.       |
| Cary, Earl Chester,        | <i>Rantoul,</i>             | General, L. and A.  |

|                             |   |
|-----------------------------|---|
| Casey, Angie May,           | <i>Chicago</i> , Household Sci., L. and A.          |
| Caul, Roy Clifton,          | <i>Chicago</i> , Civil Eng'g.                       |
| Chandler, George Herbert,   | <i>Baker City, Ore.</i> , Agriculture.              |
| Chaney, Harold Brockway,    | <i>Bloomington</i> , Electrical Eng'g.              |
| Chichester, Emily,          | <i>Brimfield</i> , Mathematics, S.                  |
| Childs, Helen Richardson,   | <i>Hinsdale</i> , Household Science, Agr.           |
| Chinlund, Joseph Ferdinand, | <i>Chicago</i> , Electrical Eng'g.                  |
| Christopher, Daniel Leroy,  | <i>Urbana</i> , General Science.                    |
| Clark, Faith Angeline,      | <i>Carthage</i> , Library, L. and A.                |
| Clark, Frances Emma,        | <i>Urbana</i> , General, L. and A.                  |
| Clarke, Carrie Louise,      | <i>Momence</i> , Architecture.                      |
| Claycomb, Amos Townsend,    | <i>Sycamore</i> , Business, L. and A.               |
| Clendenen, Paul McKinney,   | <i>Cairo</i> , Business, L. and A.                  |
| Clinite, Raymond Grover,    | <i>Cherry Valley</i> , Civil Eng'g.                 |
| Coker, Myrtle Rose,         | <i>Harrisburg</i> , General, L. and A.              |
| Coleman, William Francis,   | <i>Chicago</i> , Mechanical Eng'g.                  |
| Collins, Ray Arthur,        | <i>Chicago</i> , Civil Eng'g.                       |
| Conant, George Stephen,     | <i>Kinmundy</i> , Civil Eng'g.                      |
| Connard, Marquis Donald,    | <i>Decatur</i> , Civil Eng'g.                       |
| Cook, Frank Samuel,         | <i>Mackinaw</i> , Civil Eng'g.                      |
| Cornell, Ralph Gilbert,     | <i>Chicago</i> , Civil Eng'g.                       |
| Corrington, Cloyd Ellorne,  | <i>Morweaqua</i> , Electrical Eng'g.                |
| Corrington, Glen Harrison,  | <i>Decatur</i> , Electrical Eng'g.                  |
| Countryman, Jay A,          | <i>Rochelle</i> , Agriculture.                      |
| Coyle, John Frank,          | <i>Penfield</i> , Mechanical Eng'g.                 |
| Craig, Alice Brawner,       | <i>Aurora</i> , General, L. and A.                  |
| Craig, Hazel Iona,          | <i>Champaign</i> , General, L. and A.               |
| Craig, Nelson Earl,         | <i>Wyoming</i> , Civil Eng'g.                       |
| Craig, Ollison,             | <i>Sullivan</i> , Mechanical Eng'g.                 |
| Crigler, Nina Belle,        | <i>Normal</i> , Household Sci., L. and A.           |
| Crossland, Hiram Edward,    | <i>Watseka</i> , Civil Eng'g.                       |
| Cummings, Preston Wirum,    | <i>Sheffield</i> , Mechanical Eng'g.                |
| Curran, Thomas Francis,     | <i>Barnett</i> , Civil Eng'g.                       |
| Cutler, Stanley Gardner,    | <i>Chicago</i> , Civil Eng'g.                       |
| Dady, Arthur Owen,          | <i>Waukegan</i> , Mechanical Eng'g.                 |
| Dale, William Wilbur,       | <i>Blue Island</i> , General, L. and A.             |
| Danford, Fred Dwight,       | <i>Joy</i> , Civil Eng'g.                           |
| Davidson, Hazel Frances,    | <i>Champaign</i> , Library, L. and A.               |
| Davis, Clinton Hughes,      | <i>St. Joseph, Mich.</i> ,<br>General, L. and A.    |
| Davis, Gertrude Curtis,     | <i>Straight Creek, Kas.</i> ,<br>General, L. and A. |

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|------------------------------|---------------------------------|------------------------------|
| Dean, Harold Churchill,      | <i>Chicago,</i>                 | Electrical Eng'g.            |
| De Leon, Jesus Velasquez,    | <i>Bocane, Bulacan, P.I.,</i>   | Medical.                     |
| Devine, Robert Philip,       | <i>Chester,</i>                 | Civil Eng'g.                 |
| Dickerson, Ira Wilmer,       | <i>Newton,</i>                  | Civil Eng'g.                 |
| Dietrich, Benjamin Henry,    | <i>Black River Falls, Wis.,</i> | Business, L. and A.          |
| Dietrich, Rufus Samuel,      | <i>Black River Falls, Wis.,</i> | General, L. and A.           |
| Diggins, Ralph Clayton,      | <i>Harvard,</i>                 | Electrical Eng'g.            |
| Dillon, Elmer Clark,         | <i>Champaign,</i>               | Mechanical Eng'g.            |
| Dillon, Jessie Marion,       | <i>Chicago,</i>                 | Household Sci., L. and A.    |
| Dillon, Robert Martin,       | <i>Danville,</i>                | Civil Eng'g.                 |
| Dixon, Guy,                  | <i>Ambia, Ind.,</i>             | Electrical Eng'g.            |
| Dobbins, John Alexander,     | <i>Pleasant Plains,</i>         | Mechanical Eng'g.            |
| Doerr, Robert John,          | <i>Chicago,</i>                 | Architecture.                |
| Doerr, William Philip,       | <i>Chicago,</i>                 | Architecture.                |
| Doherty, Robert Ernest,      | <i>Clay City,</i>               | Electrical Eng'g.            |
| Doherty, Walter Harry,       | <i>Marshall,</i>                | Agriculture.                 |
| Dolbeer, Percy Duane,        | <i>Chicago,</i>                 | Architectural Eng'g.         |
| Dollinger, Hazel Dell,       | <i>Champaign,</i>               | General, L. and A.           |
| Dorman, Dean Stanley,        | <i>Taylorville,</i>             | General, L. and A.           |
| Doyle, John Carlisle,        | <i>Farmer City,</i>             | Agriculture.                 |
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| Drew, Joseph Allen,          | <i>Watseka,</i>                 | Agriculture.                 |
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| Dunn, Wilbur Lawrence,       | <i>Peoria,</i>                  | Civil Eng'g.                 |
| Dwight, Carl Wood,           | <i>Burlington, Ia.,</i>         | Civil Eng'g.                 |
| Eager, Alice,                | <i>Aurora,</i>                  | General, L. and A.           |
| Eagle, Fred White,           | <i>Statesville, N.C.,</i>       | Gen'l, L. and A.             |
| Eastman, Otis Miles,         | <i>Harvard,</i>                 | General, L. and A.           |
| Eaton, Frances Marilla,      | <i>Tyler, Tex.,</i>             | General, L. and A.           |
| Edelstein, Clarence Isidore, | <i>Chicago,</i>                 | Electrical Eng'g.            |
| Eide, Randolph,              | <i>Lee,</i>                     | Civil Eng'g.                 |
| Eiker, Bessie Hamilton,      | <i>Sparta,</i>                  | General, L. and A.           |
| Ekblaw, Karl John Theodore,  | <i>Rantoul,</i>                 | Mechanical Eng'g.            |
| Eldred, Charles Howard,      | <i>South Bend, Ind.,</i>        | Civil Eng'g.                 |
| Elliott, Nixon Cash, Jr.,    | <i>Pueblo, Colo.,</i>           | Architecture.                |
| English, Eula Mae,           | <i>Bloomington.</i>             | Household Science, L. and A. |
| Enzenroth, Clarence Herman,  | <i>Mineral Point, Wis.,</i>     | Chemical Eng'g.              |

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|---------------------------------|---------------------------|---------------------|
| Ercanbrack, Hal Edmund,         | <i>Elburn,</i>            | Electrical Eng'g.   |
| Erskine, Robert Newman,         | <i>Oak Park,</i>          | General, L. and A.  |
| Euans, Kenneth Logan,           | <i>Urbana,</i>            | Agriculture.        |
| Evans, George Robert,           | <i>Genoa,</i>             | Business, L. and A. |
| Evans, William McCullough,      | <i>Chicago,</i>           | Mechanical Eng'g    |
| Ewbank, Mary Katherine,         | <i>Farmer City,</i>       | General, L. and A.  |
| Fager, James,                   | <i>Paxton,</i>            | General, L. and A.  |
| Fairchild, Mrs. Gertrude Mills, | <i>Muncie, Ind.,</i>      | General, L. and A.  |
| Fasmer, Harry Bernard,          | <i>Yorkville,</i>         | Electrical Eng'g.   |
| Ferguson, Gladys Belle,         | <i>Urbana,</i>            | General, L. and A.  |
| Ferguson, Ivan Havelock,        | <i>Chicago,</i>           | Medical.            |
| Ferguson, Ralph McKinley,       | <i>Monmouth,</i>          | Civil Eng'g.        |
| Ficklin, Walter Colquitt,       | <i>Charleston,</i>        | General, L. and A.  |
| Fink, Erna Marie Elizabeth,     | <i>Chicago,</i>           | General, L. and A.  |
| Fishburn, Nina Jeannette,       | <i>El Paso,</i>           | General, L. and A.  |
| *Fisher, Claude Lawrence.       | <i>Urbana,</i>            | Medical.            |
| Fisk, Ira Williams,             | <i>Plain View, Minn.,</i> | Elect. Eng'g.       |
| Flanders, Harvey Harrison,      | <i>Glencoe,</i>           | General, L. and A.  |
| Flanders, Junius Aiken,         | <i>Glencoe,</i>           | General, L. and A.  |
| Foltz, Leroy Stewart,           | <i>Fowler,</i>            | Electrical Eng'g.   |
| Fosler, Clarence Antoney,       | <i>Savanna,</i>           | Chemical Eng'g      |
| Fossland, Gerard Leonard,       | <i>Winthrop Harbor,</i>   | Mech. Eng'g.        |
| Foster, Joseph Kyle,            | <i>Mt. Carmel,</i>        | Civil Eng'g.        |
| Fowler, Chester Charles,        | <i>Chicago,</i>           | Chemical Eng'g.     |
| Frazer, Oscar Bryant,           | <i>Rock Island,</i>       | General, L. and A.  |
| Freeman, Edward Edgar,          | <i>Ogden,</i>             | Mechanical Eng'g.   |
| Frey, George Earl,              | <i>Freeport,</i>          | Electrical Eng'g.   |
| Fruin, Mary Camille,            | <i>El Paso,</i>           | General, L. and A.  |
| Fugard, John Reed,              | <i>Newton, Ia.,</i>       | Architecture.       |
| Fulks, Richard Bailey,          | <i>Beardstown,</i>        | Chemistry.          |
| Fuller, Leon Elmer,             | <i>Elgin,</i>             | Chemistry.          |
| Fullerton, Charles Bushnell,    | <i>Ottawa,</i>            | General, L. and A.  |
| Furrow, Elmer Otis,             | <i>Potomac,</i>           | General, L. and A.  |
| Gage, Marjorie Harriett.        | <i>Pcoria,</i>            | General, L. and A.  |
| Gallistel, Albert Frank,        | <i>Chicago,</i>           | Architecture.       |
| Gardiner, John James,           | <i>Urbana,</i>            | Civil Eng'g         |
| Gardiner, Lion,                 | <i>Chicago,</i>           | Mechanical Eng'g.   |
| Gardner, Clarence Oran,         | <i>Shelbyville,</i>       | General, L. and A.  |
| Garnett, Robert Edward,         | <i>Plymouth,</i>          | General, L. and A.  |
| Gartside, Benjamin West, Jr.,   | <i>Davenport, Ia.,</i>    | Architecture.       |
| Garza, Juan Jesus,              | <i>Monterey, Mex.,</i>    | Elect. Eng'g.       |

\*Deceased.

Gates, Edgar Franklin,  
 Gates, Orus Ethan,  
 Gay, Charles Donald,  
 Geringer, Otto George,  
 Gibbons, Earl Espey,  
 Gibbs, Clark Lee,  
 Gilbert, Edward Harland,  
 Gish, Laura Geneva,  
 Glassco, Ray John,  
 Goss, Stanley Thomas,  
 Gourley, Margaret Travis,  
 Gourley, Mary Jane,  
 Grady, Charles Hubert,  
 Grant, Fred Hartzell,  
 Green, Howard S.,  
 Green, Ralph Marquis,  
 Greene, Edith May,

Greene, William Bertram,  
 Greenleaf, Kenneth,  
 Gresham, Nina Vivien,  
 Gridley, Mabel Alberta,  
 Grieves, John Paul,  
 Griffin, Eli Raymond,  
 Grigsby, Bertram James,  
 Gross, Nora Kathryn,  
 Grove, Sanford Lackey,  
 Guard, Lloyd Ai,  
 Gundy, Madge Katherine,  
 Gustafson, Joel Nathaniel,  
 Hadley, Homer Langdon,  
 Hager, Earl Norman,  
 Hagie, Franklin Eugene,  
 Hale, Ralph Sumner,  
 Handlin, William Clyde,  
 Hanna, Philip Sidney,  
 Hanson, Herman Ludwig,  
 Hardwicke, John Ogdon,  
 Harkins, Claude Howard,  
 Harkness, Columbus Loren,  
 Harmany, Howard Clinton,

*Girard,* Electrical Eng'g.  
*Tuscola,* Electrical Eng'g.  
*Camp Point,* General, L. and A.  
*Chicago,* Mechanical Eng'g.  
*Hoopeston,* Mechanical Eng'g.  
*Urbana,* General, L. and A.  
*El Paso,* Electrical Eng'g.  
*Onargo,* Household Science, Agr.  
*Charleston,* Agriculture.  
*Chicago,* Mechanical Eng'g.  
*Paxton,* General, L. and A.  
*Paxton,* General, L. and A.  
*Maroa,* General, L. and A.  
*Addison, Pa.,* Civil Eng'g.  
*Sterling,* Mechanical Eng'g.  
*Bloomington,* Agriculture  
*Galesburg,*

Household Science, L. and A.  
*Lisle,* Mechanical Eng'g.  
*Savanna,* Electrical Eng'g.  
*Champaign,* General, L. and A.  
*Morrison,* Household Science, S.  
*Lacon,* General, L. and A.  
*Moline,* Architectural Eng'g.  
*Peoria,* Electrical Eng'g.  
*El Paso,* General, L. and A.  
*Cerro Gordo,* Agriculture.  
*Panola,* Electrical Eng'g.  
*Bismark,* General, L. and A.  
*Chicago,* Civil Eng'g.  
*Maroa,* Electrical Eng'g.  
*Dwight,* Electrical Eng'g.  
*Elizabeth,* Medical.  
*Chicago,* Civil Eng'g.  
*Lake Fork,* General Science.  
*Aurora,* Civil Eng'g.  
*Paxton,* Mechanical Eng'g.  
*Chicago,* Civil Eng'g.  
*Macomb,* Medical.  
*Adams,* Electrical Eng'g.  
*Mattoon,* Electrical Eng'g.

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|                             | Household Science, L. and A. |                     |
| Harris, Alfred Wilson,      | <i>Tremont,</i>              | Architecture        |
| Harris, Hannah Jewell,      | <i>Lee,</i>                  | General, L. and A.  |
| Harris, John Woodman,       | <i>Champaign,</i>            | Business, L. and A. |
| Hart, Walter Edwin,         | <i>Rock Island,</i>          | Electrical Eng'g.   |
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|                             | Business, L. and A.          |                     |
| Hatcher, Charles Kenneth,   | <i>Quincy,</i>               | Electrical Eng'g.   |
| Hayes, Augustus Washington, | <i>Pleasant Plains,</i>      | Agriculture.        |
| Hayward, De Alton,          | <i>Ottawa,</i>               | Business, L. and A. |
| Heidrich, Arthur Grant,     | <i>Peoria,</i>               | General, L. and A.  |
| Heinrich, George Andrew,    | <i>Belleville,</i>           | Civil Eng'g.        |
| Heislar, Clarence Schuck,   | <i>Urbana,</i>               | Electrical Eng'g.   |
| Hendricks, Lester Blaine,   | <i>Sterling,</i>             | Electrical Eng'g.   |
| Henion, Myra Frances,       | <i>Fairbury,</i>             | Music.              |
| Henry, Donald Alison,       | <i>Urbana,</i>               | General, L. and A.  |
| Herrmann, George Albert,    | <i>Peru,</i>                 | Mechanical Eng'g.   |
| Hershey, Harry Bryant,      | <i>Taylorville,</i>          | General, L. and A.  |
| Hersman, Francis Craig,     | <i>Hersman,</i>              | Agriculture.        |
| Hess, Lucile Marie,         | <i>Somonauk,</i>             | General, L. and A.  |
| Hill, Harry S,              | <i>Paxton,</i>               | Chemical Eng'g.     |
| Hilleson, Thomas Evald,     | <i>Lee,</i>                  | Art and Design.     |
| Hinds, Orville Quincy,      | <i>Champaign,</i>            | Business, L. and A. |
| Hively, Oscar George,       | <i>Freeport,</i>             | Civil Eng'g.        |
| Hjort, Nels Reuben,         | <i>Chicago,</i>              | Civil Eng'g.        |
| Hodge, Edward Dwight,       | <i>Pueblo, Colo.,</i>        | Electrical Eng'g.   |
| Hoffman, Robert Henry,      | <i>Rock Island,</i>          | Mechanical Eng'g.   |
| Hoge, Carl Henry,           | <i>Wenona,</i>               | Electrical Eng'g.   |
| Hoge, Lura Ethel,           | <i>Wenona,</i>               | Library, L. and A.  |
| Hogue, Clarence Irvin,      | <i>Vincennes, Ind.,</i>      | Architecture        |
| Holbrook, Erwin George,     | <i>Davenport, Ia.,</i>       | Architecture.       |
| Holch, Ralph Edgar,         | <i>Gilman,</i>               | Mechanical Eng'g.   |
| Holmes, Dwight Hamilton,    | <i>Danville,</i>             | General, L. and A.  |
| Holmquist, Fred Nelson,     | <i>Weldon,</i>               | Civil Eng'g.        |
| Holton, Charles Ray,        | <i>Colchester,</i>           | General, L. and A.  |
| Homs, José Maria,           | <i>Farragona, Spain,</i>     | Mech. Eng'g.        |
| Hopkins, Mark Stolp,        | <i>Aurora,</i>               | General, L. and A.  |
| Horner, Chester William,    | <i>El Paso,</i>              | General, L. and A.  |
| Hosmer, Clarence Chapman,   | <i>Wilmette,</i>             | Architecture.       |

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|------------------------------|---------------------------|---------------------------|
| Houston, John Vernon,        | <i>Chicago,</i>           | Civil Eng'g.              |
| Hovda, Alvin Eugene,         | <i>Leland,</i>            | Business, L. and A.       |
| Howard, Russell Samuel,      | <i>Ottawa,</i>            | Chemical Eng'g.           |
| Hubbard, Julia Post,         | <i>Urbana,</i>            | General, L. and A.        |
| Hubbart, Curtis Clay,        | <i>Champaign,</i>         | Electrical Eng'g.         |
| Huber, Harold Everett,       | <i>Urbana,</i>            | General, L. and A.        |
| Huber, Joseph Earl,          | <i>Urbana,</i>            | Architectural Eng'g.      |
| Huckin, Franklin Roscoe,     | <i>Ogden,</i>             | Medical.                  |
| Huff, Florence Lenore,       | <i>Urbana,</i>            | Music.                    |
| Huffman, Eva Ellen,          | <i>Charleston,</i>        | General Science.          |
| Hugenin, Roscoe Conkling,    | <i>Tulsa, I. T.,</i>      | Architecture.             |
| Hummel, Adam Albert,         | <i>Urbana,</i>            | General Science.          |
| Hummel, Sarah Matilda,       | <i>Urbana,</i>            | Household Science, S.     |
| Humphreys, Seaver Sanford,   | <i>Atkinson,</i>          | General, L. and A.        |
| Hunt, Lawrence Richard,      | <i>Henry,</i>             | Agriculture.              |
| Hyde, Wilbur Gilpin,         | <i>Rising,</i>            | Architecture.             |
| Hyndman, Ruth,               | <i>Wyoming, O.,</i>       | General, L. and A.        |
| Ilg, George Martin Aloysius, | <i>Chicago,</i>           | Civil Eng'g.              |
| Ingram, Glen Ray,            | <i>Tuscola,</i>           | Business, L. and A.       |
| Insley, Earl Frank,          | <i>Joplin, Mo.,</i>       | Chemistry.                |
| Irving, Edward Franklin,     | <i>Cornland,</i>          | Civil Eng'g.              |
| Irwin, Decatur Howell,       | <i>Springfield,</i>       | General Science.          |
| Irwin, William Wright,       | <i>Danville,</i>          | General, L. and A.        |
| Jackson, Zita Elizabeth,     | <i>Streator,</i>          | General, L. and A.        |
| Jacobs, Cora Anna,           | <i>Sterling,</i>          | General Science.          |
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| James, McNeal Cole,          | <i>Ancona,</i>            | Agriculture.              |
| Jenkins, Edwin Milton,       | <i>Vermont,</i>           | Railway Eng'g.            |
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| Johnson, Roy Grant,          | <i>Decatur,</i>           | Civil Eng'g.              |
| Johnston, Allen G,           | <i>Carlyle,</i>           | Electrical Eng'g.         |
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| Jones, John Lloyd,           | <i>Bradford,</i>          | Civil Eng'g.              |
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|----------------------------|------------------------------|-----------------------|
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| Kagy, John Larimer,        | <i>Salem,</i>                | General, L. and A.    |
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| Keeler, Fred Crosby,       | <i>Belvidere,</i>            | Education, L. and A.  |
| Keller, Laura Edith,       | <i>Champaign,</i>            | Household Science, S. |
| Kellogg, Howard Campbell,  | <i>Tiskilwa,</i>             | Electrical Eng'g.     |
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| Koch, Alvin Caspar,        | <i>Breese,</i>               | General, L. and A.    |
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| Korsmo, Amund Marius,      | <i>Elgin,</i>                | Civil Eng'g.          |
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| Kratz, Ethel Gyola,        | <i>Champaign,</i>            | General, L. and A.    |
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| Kressman, Fred William,    | <i>Chicago,</i>              | Chemical Eng'g.       |
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| Large, Shelby Laverne,     | <i>Owaneco,</i>              | General, L. and A.    |
| Lawler, Orrin Hugh,        | <i>Rushville,</i>            | Electrical Eng'g.     |
| Layden, John Emmett,       | <i>Cheneyville,</i>          | General, L. and A.    |
| Leas, Mildred,             | <i>Urbana,</i>               | General, L. and A.    |
| Lee, Charles Bopes,        | <i>Aledo,</i>                | Agriculture.          |
| Lee, Edward,               | <i>Aledo,</i>                | Mechanical Eng'g.     |

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| Le Gore, Dan Willard,         | <i>Marshall,</i>         | Electrical Eng'g.         |
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| Lewis, Byron Ray,             | <i>Bridgeport,</i>       | General, L. and A.        |
| Lewis, Edward W,              | <i>Aledo,</i>            | Electrical Eng'g.         |
| Lewis, Lucy Ella,             | <i>Danville,</i>         | Math., L. and A.          |
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| Lindberg, Edward Ferdinand    |                          |                           |
| Jacob,                        | <i>Chicago,</i>          | Electrical Eng'g.         |
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| Linn, James Howard,           | <i>Winnetka,</i>         | Mechanical Eng'g.         |
| Linton, Margie,               | <i>Lewistown,</i>        | General, L. and A.        |
| Locke, Walter Coutant,        | <i>La Salle,</i>         | Civil Eng'g.              |
| Lofquist, Harry Stephen,      | <i>Kewanee,</i>          | Electrical Eng'g.         |
| Long, Maude,                  | <i>Urbana,</i>           | General, L. and A.        |
| Lord, Maurice Frank,          | <i>Plano,</i>            | General, L. and A.        |
| Lorenz, Frederick Ayres, Jr., | <i>Chicago,</i>          | Mechanical Eng'g.         |
| Lorenzen, Lora Dorothea,      | <i>Clinton, Ia.,</i>     | General, L. and A.        |
| Love, Lewis Ray,              | <i>Sycamore,</i>         | Business, L. and A.       |
| Lucas, Leonora,               | <i>Urbana,</i>           | General, L. and A.        |
| Lund, James Charles,          | <i>Paxton,</i>           | Mechanical Eng'g.         |
| Maas, Herbert Ira,            | <i>Sterling,</i>         | Electrical Eng'g.         |
| Mabin, Isabel,                | <i>Danville,</i>         | Music.                    |
| McCarthy, Bernard James,      | <i>Bradley,</i>          | Civil Eng'g.              |
| McCaskey, Clare Parsons,      | <i>Chicago,</i>          | Business, L. and A.       |
| McCool, Charles Edward,       | <i>Freeport,</i>         | Civil Eng'g.              |
| McCrea, Hugh Allen,           | <i>Alton,</i>            | Electrical Eng'g.         |
| McDonough, John,              | <i>Urbana,</i>           | Electrical Eng'g.         |
| McDougall, Viola Glenwood,    | <i>Ottawa,</i>           | Household Sci., L. and A. |
| McDowell, Reuben Ross,        | <i>Lewistown,</i>        | Chemistry.                |
| McEvoy, John Stewart,         | <i>Ottawa,</i>           | Architecture.             |
| McFarland, Will Johnson,      | <i>Carrollton,</i>       | General Science.          |
| McGinnis, Harvey,             | <i>Aurora,</i>           | Mechanical Eng'g.         |
| Machen, George Bruce,         | <i>Savanna,</i>          | Business, L. and A.       |
| McHugh, Grover,               | <i>El Paso,</i>          | Electrical Eng'g.         |
| Mackenzie, Elizabeth Grace,   | <i>Decatur,</i>          | General, L. and A.        |
| Mackey, Floyd James,          | <i>Genoa,</i>            | Mechanical Eng'g.         |
| McKinney, Lilabel,            | <i>Gifford,</i>          | General, L. and A.        |
| McMillan, Eugene Campbell,    | <i>Carthage,</i>         | Mechanical Eng'g.         |

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| McNally, Mary Cecelia,         | <i>Pueblo, Colo.,</i>        | General, L. and A.  |
| Mamer, Christopher, Jr.,       | <i>Chicago,</i>              | Civil Eng'g.        |
| Mandler, Henry Emil,           | <i>Bloomington,</i>          | Mechanical Eng'g.   |
| Mann, Jessie Valentine,        | <i>Oak Park,</i>             | General, L. and A.  |
| Mann, Mary Elizabeth,          | <i>Gilman,</i>               | General, L. and A.  |
| Manock, Wilbur Roy,            | <i>Farmer City,</i>          | Civil Eng'g.        |
| Manspeaker, Lewis Vinton, Jr., | <i>Champaign,</i>            | Civil Eng'g.        |
| Marti, Wiliam Christoph,       | <i>Chicago,</i>              | Chemical Eng'g.     |
| Martin, Arselia Bessie,        | <i>Atlantic, Ia.,</i>        | Architecture.       |
| Martin, Olive,                 | <i>Sullivan,</i>             | General, L. and A.  |
| Martin, Verna Eilcen,          | <i>Monticello,</i>           | General, L. and A.  |
| Matheny, Lee Verne,            | <i>Chenoa,</i>               | General, L. and A.  |
| Mathews, Elmer Lester,         | <i>Clinton,</i>              | Agriculture.        |
| Mathewson, John Warne,         | <i>Elburn,</i>               | Civil Eng'g.        |
| Matthews, Bessie Glenn,        | <i>Champaign,</i>            |                     |
|                                | Household Science, L. and A. |                     |
| Mattis, Ida Levering,          | <i>Champaign,</i>            | Music.              |
| May, William Wyman,            | <i>Rochelle,</i>             | Business, L. and A. |
| Meeker, Maurice Seibert,       | <i>Peoria,</i>               | Agriculture.        |
| Megran, Herbert Brown,         | <i>Harvard,</i>              | General, L. and A.  |
| Melloy, Joseph Alexander.      | <i>Libertyville,</i>         | Civil Eng'g.        |
| Melrose, Mary Hazel,           | <i>Grayville,</i>            | General, L. and A.  |
| Metcalf, Merrill Buchanan,     | <i>Greenfield,</i>           | Agriculture.        |
| Millar, Charles Ernest,        | <i>Mattoon,</i>              | Chemistry.          |
| Miller, John J,                | <i>Geneva,</i>               | Chemical Eng'g.     |
| Miller, Karl Friedley Kobler,  | <i>Cairo,</i>                | Civil Eng'g.        |
| Montgomery, Thomas Candor,     | <i>Rock Island,</i>          | Electrical Eng'g.   |
| Moore, Mabel D,                | <i>Clinton,</i>              | General, L. and A.  |
| Moran, Bessie,                 | <i>Effingham,</i>            | Music.              |
| Morey, Benjamin Franklin,      | <i>Clinton, Ind.,</i>        | Agriculture.        |
| Morris, George,                | <i>Congress Park,</i>        | Electrical Eng'g.   |
| Moss, Royal Ross,              | <i>Morris,</i>               | Architecture.       |
| Mueller, August Gall,          | <i>Rock Island,</i>          | Electrical Eng'g.   |
| Monroe, Courtland Leroy,       | <i>River Forcst,</i>         | Electrical Eng'g.   |
| Munsen, Chester Wright,        | <i>Morris,</i>               | Mechanical Eng'g.   |
| Murphy, Grace Eleanor,         | <i>Tuscola,</i>              | General, L. and A.  |
| Myers, Elmer James,            | <i>Belleville, Kas.,</i>     | Edu., L. and A.     |
| Myers, Harold Larrame,         | <i>Hinsdale,</i>             | Mechanical Eng'g.   |
| Myers, Lloyd Rhodes,           | <i>Hinsdale,</i>             | General Science.    |
| Mylrea, Thomas Douglas,        | <i>Chicago,</i>              | Civil Eng'g.        |
| Nash. Charles Anson,           | <i>Elizabeth,</i>            | Electrical Eng'g.   |

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| Nation, Mary Ethel,              | <i>Chebanse,</i> General, L. and A.        |
| Neal, Essie Edwina,              | <i>Chicago,</i> Education, L. and A.       |
| Nelson, Benjamin,                | <i>Chicago,</i> Mechanical Eng'g.          |
| Newberry, Esther,                | <i>Chicago,</i> Household Sci., L. and A.  |
| Newlin, Frank Enoch,             | <i>Robinson,</i> General Science.          |
| Nilson, David Victor,            | <i>Rockford,</i> Architectural Eng'g.      |
| Nolte, Charles Beach,            | <i>Mattoon,</i> Mechanical Eng'g.          |
| Norris, Howard Dakin,            | <i>Evanston,</i> Agriculture.              |
| Norton, Joseph Calvin,           | <i>Fairview,</i> Civil Eng'g.              |
| Noyes, Frederic Jansen,          | <i>Dansville, N. Y.,</i> Electrical Eng'g. |
| Nuckolls, Mary Elizabeth,        | <i>Urbana,</i> General, L. and A.          |
| Oberdorfer, Henry Dixon,         | <i>Marion,</i> Architectural Eng'g.        |
| Onken, Deana,                    | <i>Gibson City,</i> General, L. and A.     |
| Orear, George Julius,            | <i>Jacksonville,</i> Agriculture.          |
| Orr, Andrew Frank,               | <i>Mt. Carmel,</i> Business, L. and A.     |
| Orser, Fred Lloyd,               | <i>Harvey,</i> Agriculture.                |
| Osborn, John Milton,             | <i>Butler,</i> General, L. and A.          |
| Ostrom, Paul Morris,             | <i>Lockport,</i> Civil Eng'g.              |
| Otjen, Duane Bennett,            | <i>Harvey,</i> Business, L. and A.         |
| Overman, Benjamin Charles,       | <i>Mattoon,</i> Civil Eng'g.               |
| Ovitz, Ernest G,                 | <i>Mineral Point, Wis.,</i> Chem. Eng'g.   |
| Owen, Rena Celestia,             | <i>Plano,</i> General, L. and A.           |
| Parker, Clarence Goulding,       | <i>St. Louis, Mo.,</i> Chemical Eng'g.     |
| Parker, Francis Leroy,           | <i>Elgin,</i> Electrical Eng'g.            |
| Parkin, Walter Harrah,           | <i>Galva,</i> Business, L. and A.          |
| Parks, Mrs. Allie V, A.B., 1905, | <i>Urbana,</i> Music.                      |
| Parmely, James Clyde,            | <i>Grant Park,</i> Mechanical Eng'g.       |
| Parrett, Dent,                   | <i>Wenona,</i> Mechanical Eng'g.           |
| Parsons, Lura Elizabeth,         | <i>Des Plaines,</i> General, L. and A.     |
| Paul, Talbert Walter,            | <i>Peoria,</i> Electrical Eng'g.           |
| Pearce, Ira,                     | <i>Champaign,</i> Civil Eng'g.             |
| Pearson, Pierre Eric Conrad,     | <i>Perry, Ia.,</i> Architectural Eng'g.    |
| Pellens, Louise Josephine,       | <i>Ft. Wayne, Ind.,</i> Architecture.      |
| Perry, Leonora Naomi,            | <i>Cincinnati, O.,</i> Library, L. and A.  |
| Pettigrew, James Quinton,        | <i>Harvey,</i> Mechanical Eng'g.           |
| Pierce, Laura Estelle,           | <i>Gifford,</i> General, L. and A.         |
| Pierce, Raymond, Clark,          | <i>Harristown,</i> Civil Eng'g.            |
| Pinckney, Frank Loyer,           | <i>Pontiac,</i> Mechanical Eng'g.          |
| Pinkerton, Francis Elmore, Jr.,  | <i>Urbana,</i> General, L. and A.          |
| Pletcher, Opha Belle,            | <i>Hoopeston,</i> General, L. and A.       |
| Pollard, Albert Rumble,          | <i>Chicago,</i> Chemistry.                 |

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| Poorman, Amy,                 | <i>Altamont</i> , Household Sci., Agr.          |
| Pope, Jean Andrew,            | <i>Moline</i> , Mechanical Eng'g.               |
| Post, George Earl,            | <i>Fithian</i> , Business, L. and A.            |
| Potter, Charles Pruitt,       | <i>Hopeton</i> , Electrical Eng'g.              |
| Powell, Ray,                  | <i>Monmouth</i> , Civil Eng'g.                  |
| Powers, Mark Elmer,           | <i>Champaign</i> , Mechanical Eng'g.            |
| Prater, Walter A,             | <i>Vandalia</i> , Electrical Eng'g.             |
| Purvines, Samuel Earl,        | <i>Pleasant Plains</i> ,<br>Business, L. and A. |
| Putnam, Walter Edward,        | <i>Pana</i> , Civil Eng'g.                      |
| Pyatt, Donald Maul,           | <i>Morris</i> , Civil Eng'g.                    |
| Quayle, Robert Harwood,       | <i>Oak Park</i> , General, L. and A.            |
| Ragland, Richard Frank,       | <i>Metropolis</i> , Civil Eng'g.                |
| Railsback, Fay Dillon,        | <i>Normal</i> , Agriculture.                    |
| Rainey, Edward Cleveland,     | <i>Brubaker</i> , General, L. and A.            |
| de la Rama, José,             | <i>Bacolod, P. I.</i> , Agriculture.            |
| Ramser, Charles Ernest,       | <i>Newton</i> , Civil Eng'g.                    |
| Randolph, Mildred Marguerite, | <i>Champaign</i> , Music.                       |
| Rayner, William Horace,       | <i>Westplains</i> , Civil Eng'g.                |
| Rebman, Bessie Gladys,        | <i>Forreston</i> , General, L. and A.           |
| Redin, Reuben Enoch,          | <i>Rockford</i> , Mechanical Eng'g.             |
| Reeder, Claude Hazlett,       | <i>Watseka</i> , Electrical Eng'g.              |
| Reeves, Alfred James,         | <i>Morris</i> , Architecture.                   |
| Reeves, Harry Payne,          | <i>Carmi</i> , General, L. and A.               |
| Reller, Erna Marie,           | <i>Beardstown</i> , General, L. and A.          |
| Renner, Wendell Phillips,     | <i>Urbana</i> , Mechanical Eng'g.               |
| Retz, Rosalie Mary,           | <i>Ottawa</i> , General, L. and A.              |
| Rice, Emigh,                  | <i>Aurora</i> , Business, L. and A.             |
| Rice, Grover Cleveland,       | <i>Irving</i> , General, L. and A.              |
| Richards, Ben Howard,         | <i>Edwardsville</i> , Ceramics.                 |
| Richards, Percy McClure,      | <i>Peoria</i> , Electrical Eng'g.               |
| Ricketts, Clara Agnes,        | <i>Champaign</i> , General, L. and A.           |
| Riesche, Robert Herman,       | <i>Chicago</i> , Civil Eng'g.                   |
| Riley, Alice,                 | <i>Champaign</i> , General, L. and A.           |
| Ripley, Charles Trescott,     | <i>Oak Park</i> , Civil Eng'g.                  |
| Robbins, Joseph,              | <i>Congress Park</i> , Electrical Eng'g.        |
| Roberts, Clarence Gardner,    | <i>Beardstown</i> , Electrical Eng'g.           |
| Robert, John Alcide,          | <i>Lacon</i> , Civil Eng'g.                     |
| Rodgers, Robert Beam,         | <i>Riverton</i> , Electrical Eng'g.             |
| Rogers, Arthur John.          | <i>Burlington, Ia.</i> , Civil Eng'g.           |
| Rollo, Ralph Alexander,       | <i>Murphysboro</i> , Civil Eng'g.               |

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| Rood, Katherine Estelle,          | <i>Plano,</i>             | General, L. and A.        |
| Rosenberg, David,                 | <i>Vienna,</i>            | Business, L. and A.       |
| Ross, George,                     | <i>Carrollton,</i>        | Electrical Eng'g.         |
| Ross, Otto Hugh,                  | <i>Marshall,</i>          | Agriculture.              |
| Ross, Walter Raleigh,             | <i>Canton,</i>            | Agriculture.              |
| Roth, Jay Frederick,              | <i>Henry,</i>             | Mechanical Eng'g.         |
| Rounseville, Roy Winthrop,        | <i>Kewanee,</i>           | Mechanical Eng'g.         |
| Rowland, Claude Kerlin,           | <i>Martinsville,</i>      | General, L. and A.        |
| Rush, Louis Albions,              | <i>Byron,</i>             | Mechanical Eng'g.         |
| Ruskamp, Josephine Anna,          | <i>Quincy,</i>            | General, L. and A.        |
| Russell, Nondas Caroline,         | <i>Chicago,</i>           | Architecture.             |
| Russell, Wilvan Jesse,            | <i>Pana,</i>              | Business, L. and A.       |
| Ruth, Chester,                    | <i>Hinsdale,</i>          | General, L. and A.        |
| Ryan, Thomas,                     | <i>Lockport,</i>          | Electrical Eng'g.         |
| Samuels, Thomas Walter,           | <i>E. St. Louis,</i>      | General, L. and A.        |
| Schaefer, Paul Vincent,           | <i>Carlyle,</i>           | Electrical Eng'g.         |
| Schaub, Melville George,          | <i>Freeport,</i>          | Business, L. and A.       |
| Schneider, Lillie Busch,          | <i>Danville,</i>          | General, L. and A.        |
| Schnoor, Herman William,          | <i>Dolton,</i>            | Civil Eng'g.              |
| Schroeder, Justina Kathrine,      | <i>El Paso,</i>           | General, L. and A.        |
| Schureman, Alliene,               | <i>Saybrook,</i>          | General, L. and A.        |
| Schureman, Frances Belle,         | <i>Saybrook,</i>          | Music.                    |
| Schutz, Arthur Vincent,           | <i>Geneva,</i>            | Electrical Eng'g.         |
| Schuyler, Henry McCormick,        | <i>Clinton, Ia.,</i>      | Architecture.             |
| Schwarzkopf, Florence Antoinette, | <i>Chicago,</i>           | Household Sci., L. and A. |
| Scott, Edward Scofield,           | <i>Champaign,</i>         | Agriculture.              |
| Seely, John Gordon,               | <i>Oswego,</i>            | Agriculture.              |
| Seifert, Harry Byron,             | <i>Springfield,</i>       | Business, L. and A.       |
| Seiler, William Carpenter,        | <i>Washington, D. C.,</i> | Elect. Eng'g.             |
| Senton, Alberta,                  | <i>Streator,</i>          | General, L. and A.        |
| Settlemire, Wilbur Lynn,          | <i>Litchfield,</i>        | Chemical Eng'g.           |
| Shackell, Bessie Estelle,         | <i>Urbana,</i>            | General, L. and A.        |
| Sharkey, Walter Joseph,           | <i>Chicago,</i>           | Civil Eng'g.              |
| Shepard, Lawrence Freeman,        | <i>El Paso,</i>           | General, L. and A.        |
| Shinn, Florence,                  | <i>Mattoon,</i>           | Household Science, Agr.   |
| Shively, Edith Olga,              | <i>Mahomet,</i>           | General, L. and A.        |
| Showalter, Nora,                  | <i>Girard,</i>            | Household Science, Agr.   |
| Silliman, Levi, Jr.               | <i>Toulon,</i>            | Agriculture.              |
| Simmons, Louis Josiah,            | <i>Danville,</i>          | Civil Eng'g.              |
| Simpson, Francis Marion,          | <i>Vienna,</i>            | Agriculture.              |
| Simpson, Lynn Parker,             | <i>Carrollton,</i>        | Architecture.             |

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|-----------------------------|--------------------|---------------------|
| Sinnock, Pomeroy,           | Quincy,            | Mechanical Eng'g.   |
| Smejkal, Joseph Anton, Jr., | Chicago,           | Civil Eng'g.        |
| Smith, Herbert Cushing,     | Alton,             | Electrical Eng'g.   |
| Smith, Irwin Webster,       | Urbana,            | General, L. and A.  |
| Snow, Elbert Somers,        | Cody, N. C.,       | Mechanical Eng'g.   |
| Snow, Lloyd Andrew,         | Vienna,            | General, L. and A.  |
| Snow, Wilber Chancey,       | Sugar Grove,       | Mechanical Eng'g.   |
| Snyder, James Blaine,       | Moweaqua,          | Electrical Eng'g.   |
| Sonntag, Arthur Henry,      | Alton,             | Electrical Eng'g.   |
| Sontag, Joseph Harold,      | Plainfield,        | Civil Eng'g.        |
| Spafford, Frederick Dwight, | Morrison,          | Civil Eng'g.        |
| Sparks, Ray Carlisle,       | Bushnell,          | General, L. and A.  |
| Sperry, Frank Earl,         | Aurora,            | Mechanical Eng'g.   |
| Sperry, John Burton,        | Aurora,            | Mechanical Eng'g.   |
| Stahl, Clark Beebe,         | Galena,            | Civil Eng'g.        |
| Standish, Seymour,          | Lima, O.,          | Civil Eng'g.        |
| Stanger, Otto Charles,      | Barrington,        | Chemical Eng'g.     |
| Stedman, Royal Beach,       | Beardstown,        | Electrical Eng'g.   |
| Stein, Milton Frederick,    | Chicago,           | Civil Eng'g.        |
| Stephens, Alice June,       | West Chicago,      | General, L. and A.  |
| Stevens, Grace Esther,      | Marengo,           |                     |
|                             | Household Science, | L. and A.           |
| Stevens, Howard Shelby,     | Harvey,            | Civil Eng'g.        |
| Stewart, Charles Sumner,    | Charleston,        | Civil Eng'g.        |
| Stewart, James Samuel,      | Toulon,            | Civil Eng'g.        |
| Stockman, Harry George,     | Chicago,           | Civil Eng'g.        |
| Stone, Edison Harris,       | Quincy,            | Mechanical Eng'g.   |
| Stout, Elizabeth Ten Eyck,  | Urbana,            | General, L. and A.  |
| Stout, John Philemon,       | Glenarm,           | Agriculture.        |
| Stratton, Perry Jonathan,   | Momence,           | Agriculture.        |
| Streff, Albert Paul,        | Chicago,           | Civil Eng'g.        |
| Strobridge, Thomas Ralph,   | Rockford,          | Civil Eng'g.        |
| Sullivan, Besse Catherine,  | Marengo,           | General, L. and A.  |
| Sussex, Richard Henry,      | Abingdon,          | Civil Eng'g.        |
| Swayne, Ethel,              | DuQuoin,           | General, L. and A.  |
| Sweet, Harry Valmore,       | Kewanee,           | Electrical Eng'g.   |
| Swett, Lewis Edward,        | Chicago,           | Electrical Eng'g.   |
| Swigart, Alta Caroline,     | Champaign,         | General, L. and A.  |
| Swisher, William James,     | Mendota,           | Civil Eng'g.        |
| Talbot, George Winfred,     | DeKalb,            | Business, L. and A. |
| Talbot, Kenneth Hammett,    | Urbana,            | Civil Eng'g.        |

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| Tartt, Harry Maurice,          | <i>Edwardsville</i> , Architectural Eng'g. |
| Taylor, Winfield Carel,        | <i>Dennison</i> , Agriculture.             |
| Tear, Harry Clark,             | <i>Warren</i> , General Science.           |
| Thomas, Warren Wilkinson,      | <i>Newman</i> , Mechanical Eng'g.          |
| Thompson, George Brooks,       | <i>Wheaton</i> , Electrical Eng'g.         |
| Thompson, Samuel Matthew,      | <i>Harrisburg</i> , General, L. and A.     |
| Thurston, Lena May,            | <i>Winnetka</i> , Household Science        |
| Towndrow, Arthur Barnard,      | <i>Moline</i> , Civil Eng'g.               |
| Trainor, Roscoe John Chauncey, | <i>Chicago</i> , Electrical Eng'g.         |
| Trescher, Jessie Mae,          | <i>Quincy</i> , General, L. and A.         |
| Trowbridge, LeRoy John,        | <i>Denmark, Ia.</i> , Electrical Eng'g.    |
| Turner, George Edward,         | <i>Pesotum</i> , General, L. and A.        |
| Underwood, Lewis Edward,       | <i>St. Charles</i> , Chemical Eng'g.       |
| Van Brunt, George Athol,       | <i>Kewanee</i> , Chemistry.                |
| Vandersand, Ornan,             | <i>Kane</i> , Agriculture.                 |
| Van Hook, Forest Clyde,        | <i>Mt. Pulaski</i> , General Science.      |
| Van Meter, Abraham Lincoln,    | <i>Parsons, Kan.</i> , Medicine.           |
| Vautsmeier, Walter William,    | <i>Freeport</i> , General, L. and A.       |
| Viers, Dean Mooman,            | <i>Urbana</i> , Civil Eng'g.               |
| Vinson, Carrie Estelle,        | <i>Webb City, Mo.</i> , General, L. and A. |
| Voodry, Earl Corby,            | <i>Champaign</i> , Mechanical Eng'g.       |
| Voorhees, Kathryn Craig,       | <i>Bushnell</i> , General, L. and A.       |
| Voss, Mathilda Caroline,       | <i>Champaign</i> , General, L. and A.      |
| Waddington, Earle Cary,        | <i>Bloomington</i> , Electrical Eng'g.     |
| Walker, Charles M,             | <i>St. Joseph</i> , Mechanical Eng'g.      |
| Walkerly, Ellen Dolton,        | <i>Dolton</i> , General, L. and A.         |
| Walkerly, Mary Leone,          | <i>Dolton</i> , General, L. and A.         |
| Walledom, Jesse Jacobsen,      | <i>Chicago</i> , Civil Eng'g.              |
| Walsh, Edward Henry,           | <i>Chicago</i> , Civil Eng'g.              |
| Walsh, William Joseph,         | <i>Monticello</i> , Electrical Eng'g.      |
| Ward, Arthur Vere,             | <i>Rochelle</i> , Civil Eng'g.             |
| Ward, Wilbert Clarence,        | <i>Alton</i> , Chemistry.                  |
| Wardall, Edna Annetta,         | <i>Urbana</i> , Music.                     |
| Warne, Glenn Clayton,          | <i>Elburn</i> , Electrical Eng'g.          |
| Warner, William Collins,       | <i>Chicago</i> , Mechanical Eng'g.         |
| Watson, Robert Hugh, Jr.,      | <i>La Grange</i> , General, L. and A.      |
| Weaver, Lana,                  | <i>Harrisburg</i> , Civil Eng'g.           |
| Weaver, Maud,                  | <i>Harrisburg</i> , General, L. and A.     |
| Webster, Isaac Warren,         | <i>Harvard</i> , Business, L. and A.       |
| Weinrich, George Louis,        | <i>Chester</i> , General, L. and A.        |
| Weiss, John Frank,             | <i>Hinckley</i> , Mechanical Eng'g.        |

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| Welsh, Arthur Ernest,      | <i>Enfield,</i>              | Electrical Eng'g.   |
| Wernsing, Harry John,      | <i>Greenview,</i>            | Electrical Eng'g.   |
| Weston, Frederick William, | <i>Chicago,</i>              | Civil Eng'g.        |
| White, Clarence Wilbur,    | <i>Lacon,</i>                | Chemical Eng'g.     |
| White, Merrill,            | <i>Litchfield,</i>           | Business, L. and A. |
| Whitehead, Otis Gunn,      | <i>LaGrange,</i>             | Civil Eng'g.        |
| Wiener, Charles Arthur,    | <i>Chicago,</i>              | Municipal Eng'g.    |
| Wildi, Cordelia Ella,      | <i>Highland,</i>             |                     |
|                            | Household Science, L. and A. |                     |
| Willard, Maud Harriett,    | <i>Belvidere,</i>            |                     |
|                            | Household Science, L. and A. |                     |
| Willerton, Taylor Pearce,  | <i>Farmer City,</i>          | Electrical Eng'g.   |
| Williams, Ceil Edwin,      | <i>Manzanola, Colo.,</i>     | Electrical Eng'g.   |
| Williams, Charles Elmer,   | <i>Joliet,</i>               | Business, L. and A. |
| Williams, Grace Alice,     | <i>Galva,</i>                | General, L. and A.  |
| Williams, Pauline Licetna, | <i>Henry,</i>                | General, L. and A.  |
| Williams, Roger Crawford,  | <i>Grand Ridge,</i>          | Chemical Eng'g.     |
| Williams, Warren Stephen,  | <i>Champaign,</i>            | Chemical Eng'g.     |
| Wilson, Schuyler Scovel,   | <i>Chicago,</i>              | Civil Eng'g.        |
| Wingert, Frank Jennings,   | <i>Quincy,</i>               | Civil Eng'g.        |
| Witt, Archie Hannah,       | <i>Paris,</i>                | Civil Eng'g.        |
| Witt, Otto,                | <i>Davenport, Ia.,</i>       | Mechanical Eng'g.   |
| Wolf, John Emerson,        | <i>Lanark,</i>               | Mechanical Eng'g.   |
| Wolf, Otto Fred,           | <i>Bensenville,</i>          | Civil Eng'g.        |
| Wolfe, Irmagard Huldah,    | <i>Louisville, Ky.,</i>      | General, L. and A.  |
| Wood, Iris Leota,          | <i>Urbana,</i>               | General, Science.   |
| Woodard, Evan Eustice,     | <i>Fairdale,</i>             | Mechanical Eng'g.   |
| Woods, Weightstill Arno,   | <i>Versailles, Mo.,</i>      | General, L. and A.  |
| Woodworth, Harry C,        | <i>Chicago,</i>              | Agriculture.        |
| Work, Robert Frankenberg,  | <i>Rushville,</i>            | Business, L. and A. |
| Work, Ruth Eleanor,        | <i>Ottumwa, Ia.,</i>         | General, L. and A.  |
| Wray, Robert Charles,      | <i>Quincy,</i>               | Agriculture.        |
| Wrenn, Robert Fifer,       | <i>Washington,</i>           | Agriculture.        |
| Wright, Sidney Barber,     | <i>Rock Falls,</i>           | Electrical Eng'g.   |
| Yarnell, Jacob Henry,      | <i>Bowen,</i>                | Electrical Eng'g.   |
| Yehling, Albert Charles,   | <i>Sparta,</i>               | Electrical Eng'g.   |
| Yott, Francis Danneil,     | <i>Chicago,</i>              | Business, L. and A. |
| Youle, Walter Horace,      | <i>Delavan,</i>              | Electrical Eng'g.   |
| Zahrobsky, Edward Frank,   | <i>Chicago,</i>              | Civil Eng'g.        |
| Zearing, Joseph Hazen,     | <i>Princeton,</i>            | General, L. and A.  |
| Zehner, Hugo,              | <i>Belleville,</i>           | Mechanical Eng'g.   |

## SPECIALS

|  |                    |                         |
|--|--------------------|-------------------------|
| Abbott, Sara,                                    | Urbana,            | Library.                |
| Abernathy, Sherman Carter,                       | Danville,          | Business, L. and A.     |
| Ackroyd, Henry Skilvech,                         | Philadelphia, Pa., | Civil Eng'g.            |
| Acom, Owen Herman,                               | Lake City,         | Agriculture.            |
| Agnew, Harry Lee,                                | Mason City,        | Agriculture.            |
| Aguirre, Matias,                                 | Saltillo, Mex.,    | Mechanical Eng'g.       |
| Alcott, Guy Fisher,                              | Fairview,          | Agriculture.            |
| Alexander, William Harrison,                     | Emden,             | Agriculture.            |
| Alford, William Davis,                           | Davenport, Ia.,    | Agriculture.            |
| Andree, John William,                            | Tallula,           | Electrical Eng'g.       |
| Armstrong, Thomas Parks,                         | Milan,             | Agriculture.            |
| Arnold, Ross Harper,                             | Leland,            | Electrical Eng'g.       |
| Baird, John Henry,                               | DeKalb,            | Agriculture.            |
| Barclay, Harry Francis,                          | Peoria,            | Civil Eng'g.            |
| Barlow, Mrs. Jennie Coolidge,                    | Bloomington,       | Household Science, Agr. |
| Barrett, Lucia Townsend,                         | Cincinnati, O.,    | Horticulture.           |
| Bartholomew, Howard,                             | Vermont,           | Business, L. and A.     |
| Beckman, Albert Gustav,                          | Clayton,           | Agriculture.            |
| Beckman, Henry Joseph,                           | Clayton,           | Business, L. and A.     |
| Bell, Rodney Linton,                             | West York,         | Civil Eng'g.            |
| Bennett, Stella, B.L.S.,                         | Belvidere,         | General, L. and A.      |
| Bentz, George William,                           | Chicago,           | Civil Eng'g.            |
| Betzberger, John Logan,                          | Delavan,           | Agriculture.            |
| Bickel, William Rollen,                          | DeLand,            | Music.                  |
| Blaine, Mrs. Boyd Scott,                         | Champaign,         | Music.                  |
| Blair, Josephine Lyons,                          | Piper City,        | Household Science, Agr. |
| Blankenbaker, Homer Fancher,                     | Martinsville,      | Agriculture.            |
| Block, Leonora Agnes,                            | Champaign,         | Music.                  |
| Blood, Lyle Albert,                              | Morgan Park,       | Architecture.           |
| Boggs, Fred Stanley,                             | Urbana,            | Music.                  |
| Boice, Levi Augustus,                            | Champaign,         | Music.                  |
| Bond, Bertha Julia, A.B., 1904,<br>B.L.S., 1905, | Charleston,        | General, L. and A.      |
| Bond, Bessie Edwina,                             | Libertyville,      | General, L. and A.      |
| Boone, Grace Guthrie,                            | Urbana,            | Household Science, Agr. |
| Bopp, Julius Valentine,                          | Miley,             | Agriculture.            |
| Boston, Henry Mathew,                            | New Berlin,        | Agriculture.            |
| Bouyoucos, George John,                          | Chicago,           | Business, L. and A.     |

|                                     |                      |                         |
|-------------------------------------|----------------------|-------------------------|
| Bowlin, William Ray,                | <i>Princeville,</i>  | General Science.        |
| Brackenbury, Benjamin Almond,       | <i>Algonquin,</i>    | Civil Eng'g.            |
| Bracker, Emil Mark Diedrich,        | <i>Hillsdale,</i>    | Agriculture.            |
| Branen, George Daniel,              | <i>Sycamore,</i>     | Business, L. and A.     |
| Brazier, Irving Myron,              | <i>Chicago,</i>      | Agriculture.            |
| Breedlove, James Allison,           | <i>Arcola,</i>       | Agriculture.            |
| Bregger, Thomas,                    | <i>Rock Island,</i>  | Agriculture.            |
| Brewer, Claude Harold,              | <i>Danville,</i>     | Agriculture.            |
| Brinsmaid, William,                 | <i>Freeport,</i>     | Mechanical Eng'g.       |
| Brock, George Wallen,               | <i>Dubuque, Ia.,</i> | Electrical Eng'g.       |
| Brooks, Ira Sanford,                | <i>Beecher City,</i> | Agriculture.            |
| Browder, Mrs. Nellie Taylor,        | <i>Mt. Vernon,</i>   | Music.                  |
| Brown, Carl Alexander,              | <i>Clinton,</i>      | Agriculture.            |
| Brown, Carl Scott,                  | <i>Marshall,</i>     | Agriculture.            |
| Brown, Challen Marcellus,           | <i>Hoopeston,</i>    | Agriculture.            |
| Brown, Mrs. Clara Belle,            | <i>Champaign,</i>    | Music.                  |
| Bücher, Cyrus G,                    | <i>Astoria,</i>      | Agriculture.            |
| Buck, Colburn Fields,               | <i>Springfield,</i>  | Agriculture             |
| Buck, Leonard,                      | <i>Vermont,</i>      | Business, L. and A.     |
| Bundy, Flossie B.M. ( <i>McKen-</i> |                      |                         |
| <i>dree Coll.</i> ), 1903,          | <i>Carterville,</i>  | Art and Design.         |
| Burch, William Harrison,            | <i>Morrison,.</i>    | Mechanical Eng'g.       |
| Burgess, Frank M,                   | <i>Tonica,</i>       | Agriculture.            |
| Burrill, Irene Elsa,                | <i>Urbana,</i>       | Music.                  |
| Burroughs, George Earl,             | <i>Dundee,</i>       | Civil Eng'g.            |
| Busey, Frank Augusta,               | <i>Urbana,</i>       | Music                   |
| Bush, Alma Kathryn,                 | <i>Urbana,</i>       | Household Science, Agr. |
| Buzick, Jessie Winifred,            | <i>Champaign,</i>    | Art and Design.         |
| Byrns, Harvey William,              | <i>Mt. Sterling.</i> | Agriculture.            |
| Cairns, John Webster,               | <i>Richmond,</i>     | Electrical Eng'g.       |
| Calder, Ward Allan,                 | <i>LaHarpe,</i>      | Electrical Eng'g.       |
| Cameron, William Dan,               | <i>Alexis,</i>       | Agriculture.            |
| Campbell, Winifred Thompson,        | <i>Albion,</i>       | General, L. and A.      |
| Carmean, John Henry,                | <i>Casner,</i>       | Agriculture.            |
| Carr, Charles Clement,              | <i>Avon,</i>         | Electrical Eng'g.       |
| Carson, Luvilla Bardwell,           | <i>Champaign,</i>    | Music.                  |
| Carter, Wayne Leslie,               | <i>Waverly,</i>      | Agriculture.            |
| Casstevens, Edna Marie,             | <i>Beecher City,</i> |                         |
|                                     |                      | Household Science, Agr. |
| Cast, George Simeon,                | <i>Chicago,</i>      | Business, L. and A.     |
| Chester, Edward Everett,            | <i>Champaign,</i>    | Agriculture.            |

|                                     |                           |                         |
|-------------------------------------|---------------------------|-------------------------|
| Clark, Mrs. Alice Broadus, B.S.,    | 1891, <i>Urbana</i> ,     | General, L. and A.      |
| Clark, Mamie Eliza,                 | <i>Mt. Sterling</i> ,     | Household Science, Agr. |
| Cleveland, Mortimer Burnham,        | <i>Waterloo, Ia.</i> ,    | Architecture.           |
| Coe, Wilbur Felt,                   | <i>Quincy</i> ,           | Agriculture.            |
| Coleman, Clyde Bestor,              | <i>New Windsor</i> ,      | Agriculture.            |
| Coler, Lewis Anthony,               | <i>Denver, Colo.</i> ,    | Civil Eng'g.            |
| Constant, Lyman John,               | <i>Illioopolis</i> ,      | Business, L. and A.     |
| Converse, Mrs. Maude McCan-<br>non, | <i>Sugar Grove</i> ,      | General, L. and A.      |
| Corbin, Edward Lucius,              | <i>Carlinville</i> ,      | Agriculture.            |
| Cortright, Clyde Clifford,          | <i>Dixon</i> ,            | Agriculture.            |
| Courter, Robert David,              | <i>Hinsdale</i> ,         | Agriculture.            |
| Cox, George Rue,                    | <i>Moline</i> ,           | Architecture.           |
| Crabb, Leyla Louise,                | <i>Champaign</i> ,        | General, L. and A.      |
| Craig, Cheney Earl,                 | <i>Downs</i> ,            | Electrical Eng'g.       |
| Craig, George Herbert,              | <i>Wilmington</i> ,       | Agriculture.            |
| Craigmile, Eunice,                  | <i>Gifford</i> ,          | General, L. and A.      |
| Cristy, Harold E,                   | <i>Yellville, Ark.</i> ,  | Agriculture.            |
| Cross, Mrs. Cora,                   | <i>Marinette, Wis.</i> ,  | Household Science, Agr. |
| Crosthwait, Bruce LaTeer,           | <i>Bloomington</i> ,      | General, L. and A.      |
| Culver, Walter Allen,               | <i>Athens</i> ,           | Agriculture.            |
| Curtis, Homer Cecil,                | <i>Woodland</i> ,         | Agriculture.            |
| Dadant, Valentine Marie,            | <i>Hamilton</i> ,         | General, L. and A.      |
| Daehler, Albert Hartman,            | <i>Chadwick</i> ,         | General, L. and A.      |
| Danner, Roy,                        | <i>Astoria</i> ,          | Agriculture.            |
| Davies, James Otis,                 | <i>Vienna</i> ,           | General, L. and A.      |
| Davis, Albert Edward, Jr.,          | <i>Batavia</i> ,          | Agriculture.            |
| Davis, Hattie Rozella,              | <i>Bondville</i> ,        | Music.                  |
| Davis, Mary Hazel,                  | <i>Urbana</i> ,           | Household Science, Agr. |
| Deal, Hiram Linus,                  | <i>Taylorville</i> ,      | Agriculture.            |
| Deets, Ralph Emerson,               | <i>Milledgeville</i> ,    | Electrical Eng'g.       |
| Demmitt, Charles Raymond,           | <i>Illioopolis</i> ,      | Civil Eng'g.            |
| Derby, Francis Aloin,               | <i>Toulon</i> ,           | Agriculture.            |
| Devinney, Harry Gill,               | <i>Charleston</i> ,       | Agriculture.            |
| Dick, George Frederick, Jr.,        | <i>Bloomington</i> ,      | Business, L. and A.     |
| Dickinson, Robert Guest,            | <i>Eureka</i> ,           | Agriculture.            |
| Diebold, Ralph Edgar,               | <i>Manasquam, N. J.</i> , | Civil Eng'g.            |
| Deihl, Charles Stoneburger,         | <i>Ipava</i> ,            | Agriculture.            |

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|---------------------------------|------------------------------|-------------------------|
| Donigan, Frank Lyle,            | <i>Dwight,</i>               | Mechanical Eng'g.       |
| Dougherty, Floyd Everett,       | <i>Fairmount,</i>            | Architecture            |
| Downey, Retta,                  | <i>Putnam,</i>               | General, L. and A.      |
| Doyle, Frank Lockwood           | <i>Champaign,</i>            | Agriculture.            |
| Dunham Neill Chauncey,          | <i>Marengo,</i>              | Agriculture.            |
| Dunlap, Isabelle Jennie,        | <i>Savoy,</i>                | Household Science, Agr. |
| Durfey, Jeannette Margaret,     | <i>Tolono,</i>               | General, L. and A.      |
| Dürre, Fred Charles,            | <i>Edgewood,</i>             | Agriculture.            |
| Durst, Charles Elmer,           | <i>Quincy,</i>               | Agriculture.            |
| Dysart, Charles Arthur,         | <i>Granville,</i>            | Agriculture.            |
| Dysart, Howard Lee,             | <i>Granville,</i>            | Agriculture.            |
| Eagleton, Fred Wilhelm,         | <i>Denver, Colo.,</i>        | Architecture.           |
| Eastwood, Bertram Edmund,       | <i>Grayville,</i>            | Agriculture.            |
| Een, Knute,                     | <i>Newark,</i>               | Agriculture.            |
| Ellison, Charles Courtney,      | <i>Alton,</i>                | Civil Eng'g.            |
| Evans, Martin Edward,           | <i>Chebanse,</i>             | Mechanical Eng'g.       |
| Fackler, Alexander S,           | <i>Urbana,</i>               | Medical.                |
| Farmer, Paul Melville,          | <i>Springfield,</i>          | Electrical Eng'g        |
| Faulkner, Francis Perry,        | <i>Mason City,</i>           | Agriculture.            |
| Faust, Clifford Randolph,       | <i>Chicago,</i>              | Agriculture.            |
| Fellman, Henry Charles,         | <i>Rochester, N. Y.,</i>     | Electrical Eng'g        |
| Ferrell, Caesar,                | <i>Carterville,</i>          | Agriculture.            |
| Fiedler, George Louis,          | <i>Freeburg,</i>             | Agriculture.            |
| Finlay Gerald Henry,            | <i>Quincy,</i>               | General, L. and A.      |
| Flanders, Edward Aiken,         | <i>Glencoe,</i>              | Civil Eng'g.            |
| Fleming, Marcella Augusta,      | <i>Bement,</i>               | Music.                  |
| Foster, John Raymond,           | <i>Sac City, Ia.,</i>        | Agriculture.            |
| Fraser, Mrs. Alice Eaton,       | <i>Champaign,</i>            | Music.                  |
| Fraser, Malcolm Blaine,         | <i>LaSalle,</i>              | Mechanical Eng'g.       |
| Freeland, David Ellis,          | <i>Urbana,</i>               | Agriculture.            |
| French, Mrs. Laura Woodward,    | <i>Urbana,</i>               | Music.                  |
| Froehlich, John Daniel William, | <i>Chicago,</i>              | Civil Eng'g.            |
| Fullenwider, Lucilla Agnes,     | <i>Mechanicsburg,</i>        | General, L. and A.      |
| Funk, Marquis DeLoss,           | <i>Shirley,</i>              | Agriculture.            |
| Gaddis, William Gory,           | <i>Indianapolis, Ind.,</i>   | Architecture.           |
| Gaddis, Zoe,                    | <i>Bondville,</i>            | Music.                  |
| Gaines, Walter Lee,             | <i>Crete,</i>                | Agriculture.            |
| Galeener, Mary Christie,        | <i>Champaign,</i>            | Music.                  |
| Garnett, Percie Ellen,          | <i>Plymouth,</i>             |                         |
|                                 | Household Science, L. and A. |                         |
| Gastfield, Herman,              | <i>Dcerfield,</i>            | Agriculture.            |

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|--------------------------------|--------------------------|------------------------------|
| Geist, Warren Freeman,         | <i>Chicago,</i>          | Agriculture.                 |
| Gentle, Ralph William,         | <i>Farmington,</i>       | Agriculture.                 |
| Gillespy, Howard Henry,        | <i>Sigel,</i>            | Agriculture.                 |
| Glassco, Walter Emmett,        | <i>Charleston,</i>       | Agriculture.                 |
| Gloyd, Galen VanRenssalaer,    | <i>Macomb,</i>           | Architecture.                |
| Graham, Ray Austin,            | <i>Washington, Ind.,</i> | Agriculture.                 |
| Green, Alice Mary,             | <i>Urbana,</i>           | Music.                       |
| Green, Bruce Clifton,          | <i>Sidell,</i>           | Electrical Eng'g.            |
| Green, Joseph Donald Arbuckle, | <i>Oakland,</i>          | Agriculture.                 |
| Gregg, Clarence Adolphus,      | <i>Galesburg,</i>        | Agriculture.                 |
| Griffin, Charles Roy,          | <i>Anna,</i>             | Agriculture.                 |
| Griffith, Leland Stanford,     | <i>McNabb,</i>           | Agriculture.                 |
| Grimm, James Abram,            | <i>Gibson City,</i>      | Agriculture.                 |
| Grosh, Wilbur Whitmer,         | <i>Mendon,</i>           | Agriculture.                 |
| Gross, Lola Bertha,            | <i>El Paso,</i>          | Household Science, Agr.      |
| Gunning, DeLancey Thomas,      | <i>Wilmington,</i>       | Agriculture.                 |
| Gwinn, Avis,                   | <i>Urbana,</i>           | Art and Design.              |
| Hagan, Elizabeth Catherine,    | <i>Champaign,</i>        | Art and Design.              |
| Hall, Almon Ford,              | <i>Sycamore,</i>         | Agriculture.                 |
| Hall, Claudia Belle,           | <i>Hoopeston,</i>        |                              |
|                                |                          | Household Science, Agr.      |
| Hall, George Everett,          | <i>Champaign,</i>        | Agriculture.                 |
| Hall, Kenneth,                 | <i>Lake Forest,</i>      | Agriculture.                 |
| Hallett, Louise Helen,         | <i>Champaign,</i>        | General, L. and A.           |
| Halsey, Robert Vern,           | <i>Oakland,</i>          | Agriculture.                 |
| Hammett, Don Thompson,         | <i>Tuscola,</i>          | Business, L. and A.          |
| Hana, Leo Gregory,             | <i>Champaign,</i>        | General, L. and A.           |
| Hanifen, John Walker,          | <i>Ottawa,</i>           | Architecture.                |
| Hardin, Robert Augustus,       | <i>Fort Worth, Tex.,</i> | Art and Design.              |
| Harrington, Oldis Ivan,        | <i>Rockford,</i>         | Electrical Eng'g.            |
| Hawbaker, Julia,               | <i>Mansfield,</i>        |                              |
|                                |                          | Household Science, L. and A. |
| Hay, George Isaac,             | <i>Sandwich,</i>         | Agriculture.                 |
| Hecox, Elizabeth Belle,        | <i>Sidney,</i>           | Music.                       |
| Hedgcock, William Everett,     | <i>Plymouth,</i>         | Agriculture.                 |
| Heffernan, John Mathews,       | <i>Champaign,</i>        | General, L. and A.           |
| Held, Joseph Foster,           | <i>Lacon,</i>            | Agriculture.                 |
| Hendershott, William Embery,   | <i>Dundas,</i>           | Agriculture.                 |
| Henderson, Elmer J,            | <i>Leland,</i>           | Agriculture.                 |
| Henline, Alma,                 | <i>Torwanda,</i>         | Agriculture.                 |
| Herrin, George Boyer,          | <i>Bunker Hill,</i>      | Electrical Eng'g.            |

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|--------------------------------|-------------------------------|-------------------------|
| Herriott, Ombra,               | <i>Urbana,</i>                | Music.                  |
| Hertel, Clarence Agnew,        | <i>Freeburg,</i>              | Agriculture.            |
| Hertz, Martin Power,           | <i>Chicago,</i>               | Agriculture.            |
| Hess, Mrs. Maud Lloyd,         | <i>Urbana,</i>                | Music.                  |
| Hickey, Rachel,                | <i>Urbana,</i>                | Music.                  |
| Higgins, Thomas Jefferson,     | <i>Aurora,</i>                | Business, L. and A.     |
| Hill, Carrie Marsh,            | <i>Evanston,</i>              | General, L. and A.      |
| Hill, Norman Haden,            | <i>Champaign,</i>             | Architectural Eng'g.    |
| Hinton, Orval Robert,          | <i>Champaign,</i>             | Business, L. and A.     |
| Holt, Sidney Viel,             | <i>Oneida,</i>                | Agriculture.            |
| Hoskins, Ezekiel Edward,       | <i>Norris City,</i>           | Agriculture.            |
| Howard, Mary Miranda,          | <i>Champaign,</i>             | Art and Design.         |
| Howe, Harry Hathaway,          | <i>Savanna,</i>               | Agriculture.            |
| Hubbard, Winfield Scott,       | <i>Grand Junction, Colo.,</i> | Chemistry.              |
| Hueckel, Albert Philip,        | <i>Caseyville,</i>            | Civil Eng'g.            |
| Huffaker, James Cornelius,     | <i>New Berlin,</i>            | Agriculture.            |
| Hughbanks, Leonard,            | <i>Fiatt,</i>                 | Agriculture.            |
| Hughes, Chester Arthur,        | <i>Urbana,</i>                | Civil Eng'g.            |
| Hume, Albert Nash, M.S.,       |                               |                         |
| ( <i>Purdue Univ.</i> ), 1902, | <i>Urbana,</i>                | Agriculture.            |
| Hutson, Seba Ford,             | <i>Champaign,</i>             | Agriculture.            |
| Hutson, Stella Evangeline,     | <i>Champaign,</i>             |                         |
|                                |                               | Household Science, Agr. |
| Huxtable, Ancil Harvey,        | <i>Roberts,</i>               | Agriculture.            |
| Hyde, Mrs. Ella Mae,           | <i>Morgan Park,</i>           | General, L. and A.      |
| Hyde, Robert Montgomery,       | <i>Morgan Park,</i>           | Architecture.           |
| Hyde, Rosa Kate,               | <i>Rising,</i>                | Music.                  |
| Irwin, Harry Clyde,            | <i>Pleasant Plains,</i>       | Agriculture.            |
| Jackson, James Edwin,          | <i>Toulon,</i>                | Agriculture.            |
| Johnson, Elmer Lars,           | <i>Springfield,</i>           | Agriculture.            |
| Johnson, Frank Merrell,        | <i>Breeds,</i>                | Agriculture.            |
| Johnson, Oliver Oden,          | <i>Lee,</i>                   | Agriculture.            |
| Johnson, Ralph H,              | <i>Chandlersville,</i>        | Agriculture.            |
| Jones, George Lawrence,        | <i>El Dara,</i>               | Agriculture.            |
| Jones, Isabel Eliza,           | <i>Champaign,</i>             | Music.                  |
| Jones, Mrs. Lou Mae Crabb,     | <i>Champaign,</i>             | Music.                  |
| Keating, Ora Albert,           | <i>Champaign,</i>             | Art and Design.         |
| Keeler, Max Newton,            | <i>Urbana,</i>                | Architectural Eng'g.    |
| Kemp, Ward Edwin,              | <i>Sheffield,</i>             | Agriculture.            |
| Keough, Emmett,                | <i>Bath,</i>                  | Civil Eng'g.            |
| Kerley, Claude,                | <i>Timewell,</i>              | Agriculture.            |

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|-------------------------------|---------------------------|-------------------------|
| Kern, Etta Lavern,            | <i>Ridgefarm,</i>         | Art and Design.         |
| Kester, Francis Earnheart,    | <i>Danville,</i>          | General, L. and A.      |
| Kidwell, Franklin Nelson,     | <i>Chicago,</i>           | Agriculture.            |
| Kincaid, Arthur Thomas,       | <i>Athens,</i>            | Agriculture.            |
| Kindig, Pearl,                | <i>Secor,</i>             | General, L. and A.      |
| King, Bruce Adams,            | <i>Plymouth,</i>          | Agriculture.            |
| Klemmer, Daniel,              | <i>Elton, Mich.,</i>      | Agriculture.            |
| Koehn, George Vernon,         | <i>Greenfield,</i>        | Agriculture.            |
| Kurtz, Robert Everett,        | <i>Chicago,</i>           | Agriculture.            |
| Lawless, Julia Anna,          | <i>Paloma,</i>            | General, L. and A.      |
| Lawrence, Edward James,       | <i>Hudson,</i>            | Agriculture.            |
| Leggett, Robert Oscar,        | <i>Wapella,</i>           | Agriculture.            |
| Leigh, Cora,                  | <i>Taylorville,</i>       | General, L. and A.      |
| Leipold, Grover Cleveland,    | <i>Mt. Carmel,</i>        | Agriculture.            |
| Leonard, Eugene Turner,       | <i>Pekin,</i>             | General Science.        |
| Leonard, Robert Weston,       | <i>Oak Park,</i>          | Agriculture.            |
| Lescher, Frank Mills,         | <i>Topeka, Kas.,</i>      | Architecture.           |
| Lester, Bert,                 | <i>Mahomet,</i>           | Mechanical Eng'g.       |
| Linbarger, Mariea Leone,      | <i>Champaign,</i>         | Household Science, Agr. |
| Lindley, Jessie Salome,       | <i>Urbana,</i>            | Music.                  |
| Littell, Huldah Maude,        | <i>Fithian,</i>           | Music.                  |
| Logan, Alice,                 | <i>West Chester, Pa.,</i> | Household Science, Agr. |
| Logan, Grace Belle,           | <i>Edinburg,</i>          | Household Science, Agr. |
| Logeman, Louis Valentine,     | <i>Chicago,</i>           | Agriculture.            |
| Lohman, Curtis S,             | <i>Reno,</i>              | Agriculture.            |
| Long, Earl Volney,            | <i>Sugar City, Colo.,</i> | General, L. and A.      |
| Lott, Eva Alberta,            | <i>Urbana,</i>            | Music.                  |
| Ludlow, Anne Maud,            | <i>Griggsville,</i>       | Household Science, Agr. |
| Macalister, Robert Norman,    | <i>Chicago,</i>           | Mechanical Eng'g.       |
| McAllister, George Charles,   | <i>Wenona,</i>            | Mechanical Eng'g.       |
| McAllister, James Samuel,     | <i>Wenona,</i>            | Agriculture.            |
| McAllister, William Knowlton, | <i>Wenona,</i>            | General, L. and A.      |
| McCain, Myrtle B,             | <i>Bloomington,</i>       | Household Science, Agr. |
| McClain, Clara Louise,        | <i>Urbana,</i>            | Music.                  |
| McCormick, Mary Ellen,        | <i>Verona,</i>            | Household Science, Agr. |

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|------------------------------|-------------------------|-------------------------|
| McCoy, Earl Elleson,         | <i>Dallas, Texas,</i>   | Music.                  |
| McCoy, William Orlin,        | <i>Versailles,</i>      | Agriculture.            |
| McCue, John Edgar,           | <i>Junction,</i>        | Agriculture.            |
| McDougle, Jesse,             | <i>Charleston,</i>      | Agriculture.            |
| McGrath, Mae Theresa,        | <i>Champaign,</i>       | Music.                  |
| Machamer, Ivan Garfield,     | <i>Lanark,</i>          | Agriculture.            |
| Mackay, Zella Graham,        | <i>Mt. Carroll,</i>     |                         |
|                              | Household Science, Agr. |                         |
| McLain, Cordelia,            | <i>Greenville,</i>      | Art and Design.         |
| McLean, Mrs. Pearl,          | <i>Champaign,</i>       | Music.                  |
| McLellan, Mary Clutha,       | <i>Champaign,</i>       | Art and Design.         |
| McMillan, Joseph Warren,     | <i>Carthage,</i>        | Agriculture.            |
| McMillan, Mary Blanche,      | <i>Homer,</i>           | Household Science, Agr. |
| McMillen, Robert Ernest,     | <i>Homer,</i>           | Agriculture.            |
| Martin, Luta,                | <i>Oakland,</i>         | General, L. and A.      |
| Martin, Walter Claude,       | <i>Weston,</i>          | Agriculture.            |
| Masters, James Hillery,      | <i>Jacksonville,</i>    | Agriculture.            |
| Mathers, Vertus B,           | <i>Mason City,</i>      | Agriculture.            |
| Meyer, George Henry,         | <i>Havana,</i>          | Agriculture             |
| Miles, Mrs. Mattie,          | <i>Urbana,</i>          | General, L. and A.      |
| Miller, Clarence Benwell,    | <i>Boswell, Ind.,</i>   | Electrical Eng'g.       |
| Miller, Garfield Lankard,    | <i>Champaign,</i>       | General, I. and A.      |
| Miller, Goldie Mae,          | <i>Champaign,</i>       | Music.                  |
| Miller, Thomas Edgar,        | <i>Alexis,</i>          | Agriculture.            |
| Mills, Clifford Pusey,       | <i>McNabb,</i>          | Agriculture             |
| Milne, Dwight Read,          | <i>Lockport,</i>        | Agriculture.            |
| Minks, Ernest William,       | <i>Fisher,</i>          | Agriculture.            |
| Moore, John Beverly,         | <i>Benton,</i>          | Medical.                |
| Morrissey, Thomas Paul,      | <i>Hopedale,</i>        | Agriculture             |
| Morton, Venia,               | <i>Urbana,</i>          | Music.                  |
| Moser, William Oliver,       | <i>Scranton, Pa.,</i>   | Civil Eng'g.            |
| Mourning, Mary Katherine,    | <i>Augusta,</i>         | General, L. and A.      |
| Mozley, John Ladd,           | <i>Vicnna,</i>          | Agriculture.            |
| Murray, Marvin Walter,       | <i>Toulon,</i>          | Agriculture.            |
| Nettleton, Ernest Brown,     | <i>Ashton,</i>          | Civil Eng'g.            |
| Nichols, DeWitt Lethbridge,  | <i>Aurora,</i>          | Mechanical Eng'g.       |
| Nicholson William Nelson,    | <i>Chicago,</i>         | Architectural Eng'g.    |
| Norton, William R,           | <i>Neponset,</i>        | Agriculture.            |
| Noyes, Caleb Kirby,          | <i>Urbana,</i>          | Electrical Eng'g.       |
| Nutting, Mrs. Lonore Martin, | <i>Rock Island,</i>     |                         |
|                              | Household Science, Agr. |                         |

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|-----------------------------------|----------------------------|-------------------------|
| Nye, Russell G,                   | <i>Agency, Ia.,</i>        | Agriculture.            |
| Obergfell, Arthur Edward,         | <i>Chicago,</i>            | Agriculture.            |
| Ohaver, Ralph M,                  | <i>LaFayette, Ind.,</i>    | Business, L. and A.     |
| Oldham, Clyde Carleton,           | <i>Urbana,</i>             | Agriculture.            |
| Omer, Harry,                      | <i>Clayton,</i>            | Agriculture.            |
| Opperman, Anna Lizzetta,          | <i>Cullom,</i>             | Household Science, Agr. |
| Paden, James Carl,                | <i>Hillsboro,</i>          | Agriculture.            |
| Padfield, Frank Wilbur,           | <i>Carlinville,</i>        | Electrical Eng'g.       |
| Page, Harry Edwin,                | <i>Lowell, Mass.,</i>      | Electrical Eng'g.       |
| Page, Margaret Almira,            | <i>Westhope, N. D.,</i>    | General, L. and A.      |
| Parks, Laura,                     | <i>Huntertown, Ind.,</i>   | General Science.        |
| Patterson, Nell Gregg,            | <i>El Paso,</i>            | Architecture.           |
| Patterson, William Hubbard,       | <i>Chicago,</i>            | General, L. and A.      |
| Paullin, William Arthur,          | <i>Springfield,</i>        | Agriculture.            |
| Pfeffer, Margaret Mary,           | <i>Champaign,</i>          | Music.                  |
| Philbrick, Clarence Lewis,        | <i>Baldwin, Ga.,</i>       | Agriculture.            |
| Phillips, Albert Vernon,          | <i>Sullivan,</i>           | Agriculture.            |
| Pierce, Park Mathew               | <i>Galesburg,</i>          | Civil Eng'g.            |
| Pletcher, Roy Frank,              | <i>Rochester, Ind.,</i>    | Agriculture.            |
| Pletscher, Adolph Benjamin,       | <i>Trenton,</i>            | Agriculture.            |
| Pohl, Emma Ody,                   | <i>Greenville, Miss.,</i>  | General, L. and A.      |
| Pollard, Henry,                   | <i>Chicago,</i>            | Mechanical Eng'g.       |
| Post, Ethel Ann,                  | <i>Fithian,</i>            | Music.                  |
| Powell, Arthur Llewellyn,         | <i>Bowen,</i>              | Agriculture.            |
| Powers, Howard Cameron,           | <i>Princeton,</i>          | Agriculture.            |
| Powers, John August,              | <i>Harvey,</i>             | Business, L. and A.     |
| Pratt, Chester Carey,             | <i>Avon,</i>               | Agriculture.            |
| Prendergast, James Joseph,        | <i>Chicago,</i>            | Civil Eng'g.            |
| Price, Joseph Beidler,            | <i>Springfield,</i>        | Electrical Eng'g.       |
| Pricer, George Allen,             | <i>Rossville,</i>          | Mechanical Eng'g.       |
| Raht, Edward Dombois,             | <i>Chattanooga, Tenn.,</i> | Agriculture.            |
| Rapp, William John,               | <i>San Jose,</i>           | Agriculture.            |
| Ray, William Edward,              | <i>Kewanee,</i>            | Agriculture.            |
| Read, James Monroe, Jr.,          | <i>Augusta,</i>            | Agriculture.            |
| Reasoner, Clara Beck, A.B., 1902, | <i>Urbana,</i>             | General, L. and A.      |
| Redden, Frank Delta,              | <i>Oakland,</i>            | Agriculture.            |
| Reddick, Elizabeth,               | <i>Champaign,</i>          | Music.                  |

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|-------------------------------|-----------------------------|-------------------------|
| Reed, Rono,                   | <i>Jonesville,</i>          | Business, L. and A.     |
| Reeser, Orrie,                | <i>Farmer City,</i>         | Agriculture.            |
| Reeves, Huston Matthew,       | <i>Bloomington,</i>         | Architecture.           |
| Rehtmeyer, Curtis Adolph,     | <i>Chicago,</i>             | Agriculture.            |
| Reid, Carl Raymond,           | <i>Weedman,</i>             | Agriculture.            |
| Reiss, John Jacob,            | <i>Floraville,</i>          | Agriculture.            |
| Renfrew, Clara Eva,           | <i>Urbana,</i>              | Music.                  |
| Reno, John Franklin,          | <i>Browning,</i>            | Mechanical Eng'g.       |
| Reynolds, Ernest Hunter,      | <i>Tiskilwa,</i>            | Agriculture.            |
| Rhodes Edward Melvin, LL.B.,  |                             |                         |
| 1900,                         | <i>Champaign,</i>           | Agriculture.            |
| Rice, Roscoe McDaniel,        | <i>Gillespie,</i>           | Agriculture.            |
| Richardson, Ara Eugene,       | <i>Edinburg,</i>            | Agriculture.            |
| Richardson, Ethel,            | <i>Shipman,</i>             | Music.                  |
| Richolson, Thomas,            | <i>Steward,</i>             | Agriculture.            |
| Riegel, William Elias,        | <i>Galatia,</i>             | Agriculture.            |
| Rives, Kent King,             | <i>Greenfield,</i>          | General, L. and A.      |
| Robbins, Philo Thompson,      | <i>Payson,</i>              | General, L. and A.      |
| Roessler, Luther Martin,      | <i>Shelbyville,</i>         | Agriculture.            |
| Ross, Mary Mellie Ellen,      | <i>Philo,</i>               | General, L. and A.      |
| Rothlisberger, Walter Victor, | <i>Coal City,</i>           | Agriculture.            |
| Rundles, Don Cameron,         | <i>Ft. Wayne, Ind.,</i>     | Agriculture.            |
| Russell, George Washington    | <i>Champaign,</i>           | General, L. and A.      |
| Ryno, Walter E,               | <i>Canton,</i>              | Agriculture.            |
| Sanderson, Otto Alvin,        | <i>Malta,</i>               | Agriculture.            |
| Sanvictores, Jose Gorgonio,   | <i>Pasig, Rizal, P. I.,</i> | Agriculture.            |
| Saxton, Eva Iola,             | <i>Prescott, Wash.</i>      |                         |
|                               |                             | General, L. and A.      |
| Schober, Max William,         | <i>Green Bay, Wis.,</i>     | Architecture.           |
| Schreiber, Otto William,      | <i>Chicago,</i>             | General, L. and A.      |
| Schucker, Henry Edgar,        | <i>Mt. Carmel,</i>          | Architecture.           |
| Scott, Mrs. Elsie,            | <i>Chicago,</i>             | General, L. and A.      |
| Scott, Harry,                 | <i>Wapella,</i>             | Agriculture.            |
| Sexauer, Hilda Christine,     | <i>Belvidere,</i>           |                         |
|                               |                             | Household Science, Agr. |
| Seymour, Robert Ross,         | <i>Henning,</i>             | Agriculture.            |
| Seymour, Walter Alfred,       | <i>Henning,</i>             | Agriculture.            |
| Shanks, Clifford Cox,         | <i>Hainesville,</i>         | Agriculture.            |
| Sherman, Clarence Ashwood,    | <i>Rushville,</i>           | Agriculture.            |
| Silliman, Minott,             | <i>Toulon,</i>              | Agriculture.            |
| Simmerman, Roy Franklin,      | <i>Wyoming,</i>             | Agriculture.            |

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|--------------------------------|-------------------------|-------------------------|
| Simpson, Frank,                | <i>Pana,</i>            | Agriculture.            |
| Simpson, John Alexander Logan, | <i>Pana,</i>            | Agriculture.            |
| Slough, Charles Gordon,        | <i>Abingdon,</i>        | Agriculture.            |
| Smith, Daisy Frances,          | <i>Auburn,</i>          | Music.                  |
| Smith, Laura Mulvina,          | <i>Sheffield,</i>       | General, L. and A.      |
| Smith, Mrs. Mary McMillan,     | <i>Urbana,</i>          | Music.                  |
| Smith, Theodore Meade,         | <i>Auburn,</i>          | Agriculture.            |
| Smith, Volney Potter,          | <i>Yorkville,</i>       | Agriculture.            |
| Snyder, Ferdinand Peter,       | <i>Charleston,</i>      | General, L. and A.      |
| Soule Elmer Frederick,         | <i>St. Albans, Vt.,</i> | Business, L. and A.     |
| Sprecher, Irvin Sherwood,      | <i>Zion City,</i>       | Agriculture.            |
| Squires, Harry G,              | <i>Alexis,</i>          | Agriculture.            |
| Staley, Isabel A.B., 1904,     | <i>Champaign,</i>       | Music.                  |
| Stanford, Howard Russell,      | <i>Chatsworth,</i>      | Agriculture.            |
| Stanner, James Ray,            | <i>Urbana,</i>          | Agriculture.            |
| Stetson, Ezra,                 | <i>Neponset,</i>        | Agriculture.            |
| Stevens, Edgar Clarence,       | <i>Joliet,</i>          | Agriculture.            |
| Stipes, Bess Wesley,           | <i>Champaign,</i>       | Art and Design.         |
| Stocker, Cornelius,            | <i>Highland,</i>        | Agriculture.            |
| Strauch, Clara Marie,          | <i>Chadwick,</i>        | General, L. and A.      |
| Strauch, Hilda Louise,         | <i>Chadwick,</i>        | Household Science, Agr. |
| Strauch, Richard Peter,        | <i>Chadwick,</i>        | Agriculture.            |
| Strehlow, Clara Christian,     | <i>Champaign,</i>       | Music.                  |
| Sullivan, William Jay,         | <i>Chicago,</i>         | Architecture.           |
| Swanson, Amy Elmira,           | <i>Plymouth,</i>        | General, L. and A.      |
| Swayne, Juliet Robinson,       | <i>Richmond, Ind.,</i>  | Music.                  |
| Swearingen, Ralph Emmerson,    | <i>Cedar Rapids,</i>    | Architecture.           |
| Swett, William Claude,         | <i>Elgin,</i>           | Civil Eng'g.            |
| Swift, Elizabeth Andrews,      | <i>Champaign,</i>       | General, L. and A.      |
| Swisher, Charles Lee,          | <i>Wellington,</i>      | Mathematics, S.         |
| Taylor, Joseph Walkinshaw,     | <i>Chicago,</i>         | Mechanical Eng'g.       |
| Tice, Karl Jerman,             | <i>Greenview,</i>       | Agriculture.            |
| Tonjes, John Henry,            | <i>Champaign,</i>       | General, L. and A.      |
| Traynor, Cecil,                | <i>Urbana,</i>          | Agriculture.            |
| Treichel, Henry George,        | <i>Chicago,</i>         | Electrical Eng'g.       |
| Trevett, Bessie Harriette,     | <i>Champaign,</i>       | Music.                  |
| Trotter, Carroll Archibald,    | <i>Kansas,</i>          | Agriculture.            |
| Trotter, Clinton P,            | <i>Kansas,</i>          | Agriculture.            |
| Truman, Brook Halley,          | <i>Urbana,</i>          | Agriculture.            |

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|---------------------------|---|-----------------------|
| Turner, Oscar,            | <i>Chicago,</i>                           | Art and Design.       |
| Turner, Rufus Presley,    | <i>Quincy,</i>                            | Agriculture.          |
| Tysdal, Orville Elmer,    | <i>Malta,</i>                             | Agriculture.          |
| Ulrich, Otto Henry,       | <i>Godfrey,</i>                           | Agriculture.          |
| Vaniman, Vernon,          | <i>Virden,</i>                            | Agriculture.          |
| Vanneman, Grace Sadonia,  | <i>Urbana,</i>                            | Music.                |
| Velez, Natalio,           | <i>Bacolod, Occidental, Negros, P.I.,</i> | Agriculture.          |
| Vickery, John Joseph,     | <i>Chicago,</i>                           | Agriculture.          |
| Wahl, Charles Henry,      | <i>Berlin,</i>                            | Agriculture.          |
| Waldo, Mary Maude,        | <i>Champaign,</i>                         | General, L. and A.    |
| Walker, Ernest Dewitt,    | <i>Tennessee,</i>                         | Agriculture.          |
| Wallace, David Alexander, | <i>Creston, O.,</i>                       | Civil Eng'g.          |
| Waller, Henry,            | <i>River Forest,</i>                      | Agriculture.          |
| Walsh, Anna Agnes,        | <i>Urbana,</i>                            | Music.                |
| Ware, Roy Adelbert,       | <i>Butler,</i>                            | Agriculture.          |
| Warke, Joseph Alexander,  | <i>Circleville, O.,</i>                   | General, L. and A.    |
| Warrick, Theron Lloyd,    | <i>Utica,</i>                             | Agriculture.          |
| Watson, Ray Carl,         | <i>Urbana,</i>                            | Electrical Eng'g.     |
| Way, Hermien Clare,       | <i>Champaign,</i>                         | Art and Design.       |
| Weaver, Gaylord Evert,    | <i>Springfield,</i>                       | Mechanical Eng'g.     |
| Webster, Edward Fanning,  | <i>Rantoul,</i>                           | Agriculture.          |
| Weiser, Charles Philip,   | <i>Stonington,</i>                        | Agriculture.          |
| Westrup, Carl,            | <i>Mattoon,</i>                           | Agriculture.          |
| Whalen, William M,        | <i>Cabery,</i>                            | Agriculture.          |
| Wheeler, Hiram Hannibal,  | <i>Chicago,</i>                           | Agriculture.          |
| Whistler, Eber Samuel,    | <i>Morrison,</i>                          | Agriculture.          |
| White, Burt F,            | <i>Longview,</i>                          | Agriculture.          |
| White, Frank,             | <i>Shelbyville,</i>                       | Agriculture.          |
| White, Leila,             | <i>Fairmount,</i>                         | General, L. and A.    |
| White, Lena Lee,          | <i>Urbana,</i>                            | General, L. and A.    |
| Wickness, Otto Edward,    | <i>Lee,</i>                               | Agriculture.          |
| Wilder, Edson Alexander,  | <i>Pontiac,</i>                           | Mechanical Eng'g.     |
| Wilderman, Floyd Thomas,  | <i>Freeburg,</i>                          | Agriculture.          |
| Williams, Clara Geneva,   | <i>Henry,</i>                             | Household Science, S. |
| Williams, Frank Abner,    | <i>Danville,</i>                          | Mechanical Eng'g.     |
| Wilson, Louis Dale,       | <i>Woodstock,</i>                         | Agriculture.          |
| Winders, Bess May,        | <i>Urbana,</i>                            | General, L. and A.    |
| Window, William Benedict, | <i>Urbana,</i>                            | Agriculture.          |
| Winter, Harry William,    | <i>Alton,</i>                             | Architecture.         |
| Woelfel, Carl,            | <i>Morris,</i>                            | Chemistry.            |

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|-------------------------|-------------------------------|--------------------|
| Woodin, Dwight E J,     | <i>Lee Bayou, La.,</i>        | Agriculture.       |
| Woods, Paul Orrin,      | <i>Carlinville,</i>           | Agriculture.       |
| Woodworth, Levi George, | <i>Stillwell,</i>             | Agriculture.       |
| Woolard, Roll,          | <i>Hartford City, Ind.,</i>   | Agriculture.       |
| Worrell, Grace Lucile,  | <i>Bowen,</i>                 | General Science.   |
| Wright, James William,  | <i>Harris Crossing, Ind.,</i> | Agriculture.       |
| Yates, Thomas Monroe,   | <i>Griggsville,</i>           | Agriculture.       |
| Yocum, Ralph,           | <i>Galva,</i>                 | Mechanical Eng'g.  |
| Zeller, John George,    | <i>Spring Bay,</i>            | General, L. and A. |
| Zimmerman, Glenn E,     | <i>Ashmore,</i>               | Agriculture.       |

## SUMMER SESSION

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| Adair, Howard,             | <i>Tolono.</i>                             |
| Alcazar, Candido Mauricio, | <i>Iloila, Panay, P. I.</i>                |
| Alexander, John Fielder,   | <i>Galva.</i>                              |
| Allen, Bessie,             | <i>Galesburg.</i>                          |
| Allen, Grace Matilda,      | <i>Wenona.</i>                             |
| Allinson, May,             | <i>Champaign.</i>                          |
| Allison, Fred Gray,        | <i>Alpha.</i>                              |
| Allison, Harry Orson       | <i>Alpha.</i>                              |
| Allison Ira Dent,          | <i>Alpha.</i>                              |
| Alsip, Albert A,           | <i>Chicago.</i>                            |
| Anderson, Robert Paul,     | <i>Onarga.</i>                             |
| Apostol, Silverio,         | <i>Iba, Zambalec, P. I.,</i>               |
| Armeling, Henry Richard,   | <i>Mason City.</i>                         |
| Arreza, Lino,              | <i>Cantilan, Suringao, Mindanao, P. I.</i> |
| Ash, Charles Hinchman,     | <i>Litchfield.</i>                         |
| Baird, Walter Hayes,       | <i>Springfield.</i>                        |
| Baluyut, Sotero,           | <i>San Fernando, Pampanga, P. I.</i>       |
| Banks, John Stuart,        | <i>Mounds.</i>                             |
| Bannon, James Leo,         | <i>Joliet.</i>                             |
| Bantug, José Policarpio,   | <i>San Isidro N. E., P. I.</i>             |
| Barnes, Herbert Otis,      | <i>Springfield.</i>                        |
| Barnhart, Miles Goodwin,   | <i>Cullom.</i>                             |
| Barickman, Ralph Elvin,    | <i>Streator.</i>                           |
| Barto, Daniel Otis,        | <i>Champaign.</i>                          |
| Barton, Percy L,           | <i>Champaign.</i>                          |
| Baylor, William A,         | <i>Saunemin.</i>                           |
| Bean, Elsie Margaret,      | <i>Blue Mound.</i>                         |
| Beck, Peter James,         | <i>Pontiac.</i>                            |

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|---|----------------------------------|
| Benlich, Bernhard August,                   | <i>Barrington.</i>               |
| Benson, Glenn Robert,                       | <i>LaMoille.</i>                 |
| Blunk, Sanford Milton,                      | <i>St. Joseph.</i>               |
| Bonnell, Clarence,                          | <i>Harrisburg.</i>               |
| Booker, Helen Ethel, A.B., 1904,            | <i>Champaign.</i>                |
| Booker, Lucile Alice, A.B., 1899,           | <i>Champaign.</i>                |
| Borja, Victorino,                           | <i>Santa Cruz, Laguna, P. I.</i> |
| Boslough, Clarence Roy,                     | <i>Mendota.</i>                  |
| Bowlin, William Ray,                        | <i>Princeville.</i>              |
| Bracker, Emil Mark Diedrich,                | <i>Hillsdale.</i>                |
| Briggs, Claude Porter, A.B., 1901,          | <i>Aurora.</i>                   |
| Brockus, Charles Austin,                    | <i>Galesburg.</i>                |
| Bryant, Martha A,                           | <i>Quincy.</i>                   |
| Bubeck, Charles Mitchell,                   | <i>Marshall.</i>                 |
| Buck, Turney English,                       | <i>Springfield.</i>              |
| Buellesfield, Henry,                        | <i>LaSalle.</i>                  |
| Busey, Carolyn Elizabeth,                   | <i>Urbana.</i>                   |
| Butzow, Louis James,                        | <i>St. Joseph.</i>               |
| Cairns, John Webster,                       | <i>Hebron.</i>                   |
| Callan, John Albert,                        | <i>Gifford.</i>                  |
| Calloway, Russell Thornhill,                | <i>Taylorville.</i>              |
| Carey, William Joseph,                      | <i>Ivesdale.</i>                 |
| Carney, Mabel,                              | <i>Marseilles.</i>               |
| Carson, Luvilla Bardwell,                   | <i>Champaign.</i>                |
| Cass, Sherman,                              | <i>Cerro Gordo.</i>              |
| Casstevens, Edna Marie,                     | <i>Fancher.</i>                  |
| Cairns, Lorimer Victor,                     | <i>Mattoon.</i>                  |
| Chamberlain, Carl Coley,                    | <i>Pittsfield.</i>               |
| Chapin, George,                             | <i>Champaign.</i>                |
| Chapman, Mrs. Effie Williard,               | <i>St. Louis, Mo.</i>            |
| Chapman, William Charles,                   | <i>Sheldon.</i>                  |
| Christianson, Johanna Christiana<br>Mathea, | <i>Chicago.</i>                  |
| Clark, Mrs. Alice Broadus,                  | <i>Urbana.</i>                   |
| Clickener, Sarah Holcombe,                  | <i>Morrisonville.</i>            |
| Coar, Marjorie Belle,                       | <i>Urbana.</i>                   |
| Coffman, Julia,                             | <i>Hume.</i>                     |
| Coggeshall, Lester B,                       | <i>Ridgefarm.</i>                |
| Cole, Alice Maude,                          | <i>Ottawa.</i>                   |
| Coler, Lewis Anthony,                       | <i>Denver, Colo.</i>             |
| Connelly, Emma B,                           | <i>Danville.</i>                 |

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| Conrad, Alma Bertha,          | <i>Altamont.</i>                       |
| Cook, William Adelbert, A.B., |  |
| 1902,                         | <i>Urbana.</i>                         |
| Cooper, Hazle Katherine,      | <i>Champaign.</i>                      |
| Corrigan, Edward,             | <i>New Berlin.</i>                     |
| Cowan, Phelps,                | <i>Joliet.</i>                         |
| Cox, Flemin Willet,           | <i>Lawrenceville.</i>                  |
| Cox, James Francis,           | <i>Urbana.</i>                         |
| Craig, Cora Allen,            | <i>Fairbury.</i>                       |
| Crain, John Allen,            | <i>Urbana.</i>                         |
| Crawford, Joseph Henry,       | <i>Prairie View, Tex.</i>              |
| Cruz, Mariano M,              | <i>Santa Cruz, Laguma Prov., P. I.</i> |
| Curtiss, Albert Root,         | <i>Champaign.</i>                      |
| Dancey, Lloyd Slote,          | <i>Fairbury.</i>                       |
| David, Samuel Garnett,        | <i>Onarga.</i>                         |
| Davis, Wilbert Harlin,        | <i>St. Joseph.</i>                     |
| Davis, Mary Priscilla,        | <i>Farmer City.</i>                    |
| Davis, Nell Sarella McMillen, | <i>Farmer City.</i>                    |
| Davis, Ralph Richard,         | <i>Centralia.</i>                      |
| Davis, Seymour Marquiss,      | <i>Farmer City.</i>                    |
| Decker, Charles Henry,        | <i>Hamilton.</i>                       |
| Deets, Ralph Emerson,         | <i>Milledgeville.</i>                  |
| De Leon, Jesus Velasquez,     | <i>Bocaue, Bulacan, P. I.</i>          |
| Diamond, Agnes,               | <i>LaSalle.</i>                        |
| Dillon, Edna E,               | <i>Scotland.</i>                       |
| Dixon, Nellie Mabel,          | <i>Streator.</i>                       |
| Doney, Oliver Kinsey, LL.B.,  |  |
| 1900,                         | <i>Urbana.</i>                         |
| Dool, Robert Beatty,          | <i>Aledo.</i>                          |
| Doran, Edwin Wortham, Ph.D.,  |  |
| (Cumberland Univ.), 1890,     | <i>Champaign.</i>                      |
| Dougherty, Floyd Everett,     | <i>Fairmount.</i>                      |
| Drake, Edwin Louis,           | <i>Urbana.</i>                         |
| Drake, Pauline Hortense,      | <i>Urbana.</i>                         |
| Drew, Don John Charles,       | <i>Watseka.</i>                        |
| Dugan, Earl N,                | <i>Perry, Ia.</i>                      |
| Dunlap, Albert Menzo,         | <i>Savoy.</i>                          |
| Dunn, Altivene Harriet,       | <i>Alton.</i>                          |
| Durfee, John Henry,           | <i>Urbana.</i>                         |
| Dyckes, Lawrence Julian,      | <i>Lewistown.</i>                      |
| Echols, Silas, A.B., 1905,    | <i>McLeansboro.</i>                    |

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| Echols, Harry Augustus,  | <i>Mt. Vernon.</i>                    |
| Edmunds, Henry Hugh,   | <i>Rushville.</i>                     |
| Edwards, Adrian Clare,   | <i>Roodhouse.</i>                     |
| Ekblaw, Karl John Theodore,                                      | <i>Rantoul.</i>                       |
| Ellison, Willard Sylvester,                                      | <i>Prophetstown.</i>                  |
| Ernest, Thomas Reuben,   | <i>Swanwick.</i>                      |
| Evans, Kenneth Neill, A.B., 1904,                                | <i>Taylorville.</i>                   |
| Evans, Martin Edward,  | <i>Chebanse.</i>                      |
| Fackler, Alexander S,  | <i>Urbana.</i>                        |
| Fackler, Mrs. Effie Clark,                                       | <i>Urbana.</i>                        |
| Fairchild, James Albert Leroy,                                   | <i>Muncie, Ind.</i>                   |
| Faris, Stephen Douglas,  | <i>Augusta.</i>                       |
| Farwell, Stanley Prince,   | <i>Chicago.</i>                       |
| Feind, Frances Marguerite,                                       | <i>Chicago Heights.</i>               |
| Fishback, William Murphy,  | <i>Marshall.</i>                      |
| Ferguson, Jean May,  | <i>Pekin.</i>                         |
| Flanders, Edward Aiken,  | <i>Glencoe.</i>                       |
| Flather, Alice Virginia,   | <i>Urbana.</i>                        |
| Ferrell, Caesar,   | <i>Carterville.</i>                   |
| Forbes, Bertha Mary,   | <i>Urbana.</i>                        |
| Fosler, Charles Edward,  | <i>Savanna.</i>                       |
| Fragante, Vicente P,   | <i>Vigan, Ilocos Sur, P. I.</i>       |
| Frailey, Lester,   | <i>Urbana.</i>                        |
| Francisco, Louis,  | <i>Batangas, Batangas Prov., P. I</i> |
| Frederick, James Ivan,   | <i>Paxton.</i>                        |
| Fritter, Clara Theresa,  | <i>Normal.</i>                        |
| Fritter, Enoch Abraham, A.B.,<br>( <i>Findlay Coll.</i> ), 1898, | <i>Normal.</i>                        |
| Gaddis, William Gory,  | <i>Indianapolis, Ind.</i>             |
| Gallardo, Marcelino Mendoza.                                     | <i>San Isidro, Nueva Ecija, P. I</i>  |
| Galloway, William James,   | <i>Deerfield.</i>                     |
| Garlough, Carl D, A.M., ( <i>Hills-<br/>dale Coll.</i> ), 1900,  | <i>Delavan.</i>                       |
| Garrison, Elbert.  | <i>Danforth.</i>                      |
| Garwood, Mabel Clare,  | <i>Augusta.</i>                       |
| Garza, Juan Jesus,   | <i>Monterey, Mex.</i>                 |
| Gates, Edgar Franklin,   | <i>Girard.</i>                        |
| Gay, Mary Louise,  | <i>Rockport.</i>                      |
| Gaylor, George Wilson,   | <i>Keithsburg.</i>                    |
| Gilbreath, Frank Able, A.B.,<br>( <i>Austin Coll.</i> ), 1900,   | <i>Gilman.</i>                        |

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| Gilkerson, Portia Eunice,                 | <i>Urbana.</i>                         |
| Gill, Frederick William,                  | <i>Belvidere.</i>                      |
| Golden, Charles Dunning,                  | <i>Chicago.</i>                        |
| Gomez, Pastor,                            | <i>Calumpit, Bulacan, P. I.</i>        |
| Gore, Adolph, A.B., 1905,                 | <i>Marion.</i>                         |
| Graff, Mamie,                             | <i>Effingham.</i>                      |
| Grandey, Charles William,                 | <i>Gurner.</i>                         |
| Grant, Edith Grace,                       | <i>Greenup.</i>                        |
| Groves, Mabel,                            | <i>Sidney.</i>                         |
| Guerrero, Angel Cuesta,                   | <i>Laoag, Elocos Norte, P. I.</i>      |
| Gunthorp, James Monroe,                   | <i>Chicago.</i>                        |
| Hachmeister, Henry William,               | <i>Chicago.</i>                        |
| Hagan, Michael Edward,                    | <i>Champaign.</i>                      |
| Hall, Caroline Elizabeth,                 | <i>Peoria.</i>                         |
| Hall, Victor Curtis,                      | <i>Tuscola.</i>                        |
| Hardin, Robert Augustus,                  | <i>Ft. Worth, Tex.</i>                 |
| Hargis, Eliza Louella,                    | <i>Bondville.</i>                      |
| Harrah, Clara,                            | <i>Hoopeston.</i>                      |
| Harrington, Oldis Ivan,                   | <i>Rockford.</i>                       |
| Hatchitt, Clarence Eugene,                | <i>Durand.</i>                         |
| Hawbaker, Eliphalet Henry,                | <i>Stratford, Ia.</i>                  |
| Hawk, Pearl John,                         | <i>Fairbury.</i>                       |
| Hawkes, William,                          | <i>Minonk.</i>                         |
| Hayes, Augustus Washington,               | <i>Pleasant Plains.</i>                |
| Henderson, Alice Harshbarger,             | <i>Rio.</i>                            |
| Henderson, Wilson Hogan,                  | <i>Rio.</i>                            |
| Henion, Lora Atkins,                      | <i>Fairbury.</i>                       |
| Henion, Myra,                             | <i>Fairbury.</i>                       |
| Henry, John Earl,                         | <i>Tippecanoe City, O.</i>             |
| Henson, Mark,                             | <i>Urbana.</i>                         |
| Hidalgo, Marceliano,                      | <i>Binalouan, Pangasiman, P. I.</i>    |
| Hiett, Robert Cone,                       | <i>Greenview.</i>                      |
| Higdon, Mrs. Lena Biehl,                  | <i>St. Louis, Mo.</i>                  |
| Higdon, William David, A.B., ( <i>De-</i> |  |
| <i>Pauw Univ.</i> ), 1894,                | <i>St. Louis, Mo.</i>                  |
| Hilario, Juan Fernando,                   | <i>Batangas, Batangas Prov., P. I.</i> |
| Hilbert, Louis Albert,                    | <i>Grant Fork.</i>                     |
| Hiles, Perry Houston,                     | <i>Perry.</i>                          |
| Hill, Chauncey Stevens,                   | <i>Champaign.</i>                      |
| Hogge, John Edwin,                        | <i>Kansas City, Mo.</i>                |
| Hollis, David P,                          | <i>Griggsville.</i>                    |

Homs, José Maria,  
Hough, Charles Frank,  
Howe, Edward Gardiner,  
Hubbart, Guy,  
Hudson, Harry Henry,  
Huff, James Orton,  
Huff, Nolan Hynson,  
Hughes, Harold DeMotte,  
Huising, Geronimo,  
Hummel, Adam Albert,  
Hummel, Sarah Matilda,  
Hummel, William Grandville,  
Hunt, E Glenne,  
Irwin, Burr Polk,  
Jackson, Mabel,  
Jacobs, Agnes Hattie,  
James, Helen Dickson,  
Jenkins, Alfred Kendall,  
Jensen, Trygve,  
Johnson, John Thomas,  
Johnston, Elizabeth Jane,  
Jones, John Lloyd,  
Kasilag, Marcial M,  
Keator, Jeannette,  
Kelley, Truman Lee,  
Kelley, Jennie Alice,  
Kellum, Charles Samuel,  
Kelly, John Fred,  
Keys, Louisa,  
Kinsey, Leon Browning,  
Kirk, Todd,  
Kolker, Katherine Joan,  
Koons, Guy Jinks,  
Kratz, Elwin Valentine,  
Lamb, Bertha,  
Lanham, Mariam Elizabeth,  
Larabee, Charles David,  
Larracas, Fidel,  
Laycock, Mary Janet,  
Layton, Hope,  
Leas, Frank Stevens,

*Kankakee.*  
*Champaign.*  
*Urbana.*  
*Philo.*  
*Galva.*  
*Rushville.*  
*Rushville.*  
*Antioch.*  
*Jaro, Iloila, P. I.*  
*Urbana.*  
*Urbana.*  
*Urbana.*  
*Dana, Ind.*  
*Quincy.*  
*Danville.*  
*Pekin.*  
*Urbana.*  
*Sterling.*  
*Christiania, Norway.*  
*Urbana.*  
*Illio polis.*  
*Bradford.*  
*Rosario, Batangas Prov., P. I.*  
*Polo.*  
*Muskegon, Mich.*  
*Fairbury.*  
*Sycamore.*  
*Mt. Vernon.*  
*Normal.*  
*Mackinaw.*  
*Kirksville, Mo.*  
*Quincy.*  
*Oakland.*  
*Champaign.*  
*Momence.*  
*Osceola, Ia.*  
*Paw Paw.*  
*Boac, Marindugue, P. I.*  
*Waverly.*  
*Carthage.*  
*Urbana.*

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| Leasure, Floyd,               | <i>Grass Creek, Ind.</i>          |
| Ledden, Carrie Viola,         | <i>Ospur.</i>                     |
| Lemon, Lawrence Webb,         | <i>Clinton.</i>                   |
| Lenehen, Carolyn,             | <i>Manteno.</i>                   |
| Leonard, Edith,               | <i>Urbana.</i>                    |
| Lester, Bert,                 | <i>Mahomet.</i>                   |
| Levy, Isa,                    | <i>Peoria.</i>                    |
| Light, John Henry,            | <i>Mt. Morris.</i>                |
| Linbarger, Mariea Leona,      | <i>Champaign.</i>                 |
| Lindley, Fleetwood Herndon,   | <i>Springfield.</i>               |
| Lockett, Lela,                | <i>Clinton.</i>                   |
| Logan, Winnie Alice,          | <i>Edinburg.</i>                  |
| Logan, Grace Belle,           | <i>Edinburg.</i>                  |
| Longenbaugh, Joseph Edson,    | <i>Mowcaqua.</i>                  |
| Lopez, Ramon,                 | <i>Jaro, Iloila, Panay, P. I.</i> |
| Lott, Elizabeth,              | <i>Carlinville.</i>               |
| Lott, Julius Bliss,           | <i>Urbana.</i>                    |
| Lovell, Minnie Gertrude,      | <i>Shelbyville.</i>               |
| Lucas, Leonora,               | <i>Urbana.</i>                    |
| Lyle, Albert Francis,         | <i>Arcola.</i>                    |
| McAllister, William Knowlton, | <i>Wenona.</i>                    |
| McClain, Annie,               | <i>Urbana.</i>                    |
| McComb, John Barnet,          | <i>Chicago.</i>                   |
| McCullough, William Wright,   | <i>Pontiac.</i>                   |
| Maceda, Sixto,                | <i>Pagsanjan, Lag, P. I.</i>      |
| Mack, Louis William,          | <i>Chicago.</i>                   |
| McLain, Cordelia,             | <i>Greenville.</i>                |
| McLaughlin, Edwin E,          | <i>Anna.</i>                      |
| McMannus, James Bernard,      | <i>La Salle.</i>                  |
| Madden, William Dillon James, | <i>Ogden.</i>                     |
| Main, Josiah,                 | <i>Champaign.</i>                 |
| Main, Roscoe Conkling,        | <i>Pittsfield.</i>                |
| Marsh, Mabel,                 | <i>Kincaid, Kas.</i>              |
| Martin, John Linton,          | <i>Wilmington.</i>                |
| Marx, Isaac Edwin,            | <i>Mt. Carmel.</i>                |
| Mason, Laura,                 | <i>Delavan.</i>                   |
| Massey, Esther, A.B., 1905,   | <i>Urbana.</i>                    |
| Matheny, May,                 | <i>Chicago.</i>                   |
| Matthews, Leo,                | <i>Champaign.</i>                 |
| Meeks, Mrs. Frances Pearson,  | <i>Danville.</i>                  |
| Meneely, Margaret,            | <i>Champaign.</i>                 |

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| Menzimer, George William,                              | <i>Apple River.</i>                  |
| Merrick, Sarah Louisa,                                 | <i>Champaign.</i>                    |
| Miller, Donald S,                                      | <i>Geneva.</i>                       |
| Miller, Mrs. Ella Garrison,                            | <i>Granite City.</i>                 |
| Miller, Jacob Cyrus,                                   | <i>Rock Island.</i>                  |
| Miner, William,  | <i>Pana.</i>                         |
| Mohr, Esther Cook,                                     | <i>Dwight.</i>                       |
| Moor, Rev. George Caleb, Ph.D.,<br>(Ewing Coll.), 1902 | <i>Champaign.</i>                    |
| Moore, Genevieve,                                      | <i>Urbana.</i>                       |
| Moore, Harriet Elizabeth,                              | <i>Decatur.</i>                      |
| Moore, Nellie Anna,                                    | <i>Pittsfield.</i>                   |
| Morris, Minnie,  | <i>Champaign.</i>                    |
| Morse, Clara Louise,                                   | <i>Carlyle.</i>                      |
| Morton, James Harrison,                                | <i>Kewanee.</i>                      |
| Moulton, Charles Robert,                               | <i>Glen Ellyn.</i>                   |
| Muckelroy, Renzo,                                      | <i>Mt. Vernon.</i>                   |
| Murphy, Emmet Loehr.                                   | <i>Jerseyville.</i>                  |
| Murphy, James Russell,                                 | <i>Lincoln.</i>                      |
| Nietz, Clara Savilla,                                  | <i>Plainfield.</i>                   |
| Nicholson, Margaret,                                   | <i>Gibson City.</i>                  |
| Nieva, José,   | <i>Manila, P. I.</i>                 |
| Nollen, Nell,  | <i>Atlanta.</i>                      |
| Oehmke, Charles F,                                     | <i>Penfield.</i>                     |
| O'Hair, Lulu Claire,                                   | <i>Laurel, Ind.</i>                  |
| Olmsted, George Chauncey,                              | <i>Chattanooga, Tenn.</i>            |
| Olsen, Sharon Marmo,                                   | <i>Morgan Park.</i>                  |
| Opperman, Anna Lizzetta,                               | <i>Cullom.</i>                       |
| Pagaduan, William,                                     | <i>Candon, Ilocos Sur, P. I.</i>     |
| Paine, Mattie May,                                     | <i>Rosemond.</i>                     |
| Palmer, George Merit,                                  | <i>Galena.</i>                       |
| Parker, Gilbert Walter,                                | <i>Champaign.</i>                    |
| Parks, Dwight Comstock,                                | <i>Murphysboro.</i>                  |
| Patdu, Ildefonso,                                      | <i>Manila, P. I.</i>                 |
| Paul, Mary Josephine,                                  | <i>Jerseyville.</i>                  |
| de la Paz, Fabian,                                     | <i>San Fernando, Pampanga, P. I.</i> |
| Perkins, Albert,                                       | <i>Urbana.</i>                       |
| Perreault, Maurice Seraph,                             | <i>St. Anne.</i>                     |
| Pfennighausen, Otto Charles,                           | <i>Belleville.</i>                   |
| Phillips, Claude Watson,                               | <i>Marion.</i>                       |
| Picard, Armand,  | <i>Chicago.</i>                      |

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| Pillsbury, Charles Stephen,       | <i>Urbana.</i>                       |
| Pinckney, Frank Loyer,            | <i>Pontiac.</i>                      |
| Pippit, Aden G,                   | <i>Abingdon.</i>                     |
| Ponce y Enrile, Alfonso Vincente, | <i>Baliwag, Bulacan, P. I.</i>       |
| Poore, William Earl,              | <i>Harviell, Mo.</i>                 |
| Pope, George Samuel,              | <i>Kane.</i>                         |
| Porterfield, N Raymond,           | <i>Fairmount.</i>                    |
| Powers, Alice Josephine,          | <i>Tiskilwa.</i>                     |
| Pratt, Ella Jane,                 | <i>Dixon.</i>                        |
| Prendergast, James Joseph,        | <i>Chicago.</i>                      |
| Price, Bessie May,                | <i>Savanna.</i>                      |
| Price, Harry Brusha,              | <i>Ashton.</i>                       |
| Pricer, George Allen,             | <i>Rossville.</i>                    |
| Pricer, John Lossen,              | <i>El Paso.</i>                      |
| Rademacher, Lydia Barbara,        | <i>Clinton.</i>                      |
| de la Rama, Jose,                 | <i>Bacolod, P. I.</i>                |
| Ragsdale, James Harvey,           | <i>Moweaqua.</i>                     |
| Rambo, Jessie Eulalia,            | <i>Maquon.</i>                       |
| Ramey, Robert Henry,              | <i>Champaign.</i>                    |
| Ramsey, Carrie Eva,               | <i>Denver.</i>                       |
| Reed, Philip Clyde,               | <i>Houston, Tex.</i>                 |
| Regan, Ralph Howard,              | <i>Chicago.</i>                      |
| Rico, Graciano,                   | <i>Jaro, Iloila, P. I.</i>           |
| Riechel, Allen Remy,              | <i>Lake City.</i>                    |
| Ritter, Lena,                     | <i>Villa Grove.</i>                  |
| Roa, Manuel,                      | <i>Cagayan, Mindanao, P. I.</i>      |
| Rocha, Zacarias,                  | <i>Tagbilaran, Bohol, P. I.</i>      |
| Rohrer, Minnie Genevieve,         | <i>Somonauk.</i>                     |
| Rump, Charles Albert,             | <i>Quincy.</i>                       |
| Russell, Virgil Ray,              | <i>Urbana.</i>                       |
| Rutledge, Bertha,                 | <i>LeRoy.</i>                        |
| Salzman, Oscar R,                 | <i>Grant Fork.</i>                   |
| Santos, Gervasio,                 | <i>San Fernando, Pampanga, P. I.</i> |
| Santos, José Abad,                | <i>San Fernando, Pampanga, P. I.</i> |
| Sanvictores, José Gorgonio,       | <i>Pasig, Rizal, P. I.</i>           |
| Schertz, Joseph William,          | <i>Tiskilwa.</i>                     |
| Scott, Frank William, A.M.,       |                                      |
| ( <i>Harvard Univ.</i> ), 1904,   | <i>Centralia.</i>                    |
| Seegar, Nellie Sarah,             | <i>Nokomis.</i>                      |
| Selby, Leon Gaston,               | <i>Momence.</i>                      |
| Selby, Richard Edward,            | <i>Momence.</i>                      |

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| Senton, Alberta,                     | <i>Streator.</i>                       |
| Shackell, Leon Francis,              | <i>Galena.</i>                         |
| Silkey, Earl,                        | <i>Ogden.</i>                          |
| Sim, Keturah Elizabeth, B.L., 1884,  | <i>Urbana.</i>                         |
| Simer, Jerome Kenneth,               | <i>Champaign.</i>                      |
| Sinnett, Thomas Patrick,             | <i>Crescent City.</i>                  |
| Sloan, William Finlay,               | <i>Bowen.</i>                          |
| Smith, Erasmus Edward,               | <i>Modena.</i>                         |
| Smith, Edward Randolph,              | <i>Urbana.</i>                         |
| Smith, Fleda Mary,                   | <i>Urbana.</i>                         |
| Smith, Harold Henson,                | <i>Urbana.</i>                         |
| Smith, Valentine, A.B., 1905,        | <i>Urbana.</i>                         |
| Snapp, Frank Jacob,                  | <i>Patw Patw.</i>                      |
| Snider, Earl Quinter,                | <i>Urbana.</i>                         |
| Sparks, Mrs. Myrtle Eva, A.M., 1899, | <i>Urbana.</i>                         |
| Steven, Hiram Allen,                 | <i>Wheaton.</i>                        |
| Stevenson, Milton Leonard,           | <i>Mason City.</i>                     |
| Stewart, Harold Wilson,              | <i>Hebron.</i>                         |
| Stewart, John Wesley,                | <i>Evanston.</i>                       |
| Stewart, Mary Ella,                  | <i>Bushnell.</i>                       |
| Stone, Jessie Ruth,                  | <i>Pekin.</i>                          |
| Styles, Edward Anthony,              | <i>Champaign.</i>                      |
| Sutherland, Charley,                 | <i>Urbana.</i>                         |
| Sype, George, A.B., 1905,            | <i>Fairbury.</i>                       |
| Taylor, Dalla Alice,                 | <i>Champaign.</i>                      |
| Thal, Otto Samuel,                   | <i>Champaign.</i>                      |
| Thornton, Etta Pearl,                | <i>Sadorus.</i>                        |
| Thornton, Sara,                      | <i>Sadorus.</i>                        |
| Thrasher, Marvin Allen,              | <i>Atwood.</i>                         |
| Tomm, Rosa Alvina,                   | <i>Delavan.</i>                        |
| Torre Franca, Cirilo,                | <i>Tigbauan, Iloila, Panay, P. I.</i>  |
| Trams, Albert Francis, A.B., 1905,   | <i>Loda.</i>                           |
| Trimble, Clara Eugenia,              | <i>Champaign.</i>                      |
| Trimble, Mary Lillian,               | <i>Champaign.</i>                      |
| Tuason, Alfonso,                     | <i>Manila, P. I.</i>                   |
| Turnbull, Ida Caroline,              | <i>Carlinville.</i>                    |
| Ungson, Rafael,                      | <i>Lingayen,, Pangasinan, P. I.</i>    |
| Upchurch, Oscar Conrad,              | <i>Benton.</i>                         |
| Urtula, Dalmacio,                    | <i>Calasias, Pangasinan, P. I.</i>     |
| Valencia, Felix V,                   | <i>Silay, Occidental Negros, P. I.</i> |
| Vallarta, Julian,                    | <i>San Ysidro Nueva Ecija, P. I.</i>   |

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| Varner, Adam,                    | <i>Urbana.</i>                                    |
| Velez, Natalio,                  | <i>Bacolad, Occidental Negros</i><br><i>P. I.</i> |
| Verner, Arthur,                  | <i>Hoopeston.</i>                                 |
| Villanueva, Bonifacio,           | <i>Batangas, Batangas Prov., P. I</i>             |
| Vines, Edgar James, A.B., 1905,  | <i>Bement.</i>                                    |
| Waggoner, Harry Dwight,          | <i>Godfrey.</i>                                   |
| Waits, Harmon Ebert,             | <i>Petersburg.</i>                                |
| Waldron, Carl Augustus,          | <i>Delavan.</i>                                   |
| Warke, Joseph Alexander,         | <i>Circleville, O.</i>                            |
| Warner, James Madison,           | <i>Chicago.</i>                                   |
| Waterhouse, Charles Eugene,      | <i>Burlington, Ia.</i>                            |
| Watkins, Oscar S,                | <i>Danville.</i>                                  |
| Webber, Pearl, A.B., 1903,       | <i>Urbana.</i>                                    |
| Webster, Roy Franklin,           | <i>Nokomis.</i>                                   |
| Weightman, Almarine Anne,        | <i>Carpentersville.</i>                           |
| Wempen, Carolyn Martha,          | <i>Alton.</i>                                     |
| Werhosek, Julia,                 | <i>Morris.</i>                                    |
| Weston, Leonard Fisher,          | <i>Clinton, Ia.</i>                               |
| White, Lena Lee,                 | <i>Urbana.</i>                                    |
| Whitten, John Hamilton,          | <i>Onarga.</i>                                    |
| White, Fred H,                   | <i>Longview.</i>                                  |
| Wilmington, Arthur Guy,          | <i>Nunda.</i>                                     |
| Wilson, Albert Harris, M.S.,     |   |
| <i>(Vanderbilt Univ.), 1893,</i> | <i>Champaign.</i>                                 |
| Wilson, Lester Roy,              | <i>Foosland.</i>                                  |
| Winn, Claude Ethelbert,          | <i>Paris.</i>                                     |
| Woerner, Louise,                 | <i>Chenoa.</i>                                    |
| Woll, Henry L,                   | <i>Lovington.</i>                                 |
| Wood, Ethel,                     | <i>Greenville.</i>                                |
| Wood, George Vernon,             | <i>Dillsburg.</i>                                 |
| Wood, Harvey Chase,              | <i>Mt. Pulaski.</i>                               |
| Wood, Ira F,                     | <i>Mt. Carmel.</i>                                |
| Worley, Jennie Luella,           | <i>Henry.</i>                                     |
| Yeaton, Fred Drinkwater,         | <i>Indianapolis, Ind.</i>                         |
| Young, Rose Jeannette,           | <i>Rushville.</i>                                 |
| Yumul, Victoriano,               | <i>Apalit, Pampanga, P. I.</i>                    |
| Yunk, Nellie,                    | <i>Sandoval.</i>                                  |
| Zaerr, Byron Leslie,             | <i>Chicago.</i>                                   |

## COLLEGE OF LAW

## Third Year

|                                      |                     |
|--------------------------------------|---------------------|
| Boyle, John Marshall,                | <i>Roberts.</i>     |
| Browder, Olin Lorraine,              | <i>Mt. Vernon.</i>  |
| Cantlin, Jacob,                      | <i>Tampico.</i>     |
| Carey, William Joseph,               | <i>Ivesdale.</i>    |
| Colby, Roy Ray,                      | <i>Beloit, Wis.</i> |
| Emmerson, Raymond Jesse,             | <i>Lincoln.</i>     |
| Fairchild, Sherman DeWitt,           | <i>Mexico, Mo.</i>  |
| Galeener, John Halbert,              | <i>Vienna.</i>      |
| Gordon, Joseph Hinckley, A.M., 1901, | <i>Vandalia.</i>    |
| Gridley, Harry Norman, A.M., 1902,   | <i>Virginia.</i>    |
| Healy, William James,                | <i>Rochelle.</i>    |
| Hickey, James Bernard,               | <i>Urbana.</i>      |
| Hillyer, George Clinton,             | <i>Rushville.</i>   |
| Holman, Thomas Worcester,            | <i>Chicago.</i>     |
| Kimmel, Howard Elihu,                | <i>Du Quoin.</i>    |
| Knight, Earl John,                   | <i>Beardstown.</i>  |
| McClurg, Walter Sim,                 | <i>Urbana.</i>      |
| McConaughy, Edward Leon,             | <i>Rochelle.</i>    |
| McCormick, Evert Bruce,              | <i>Champaign.</i>   |
| McCoy, Charles Brooks,               | <i>Marengo.</i>     |
| Maxwell, Stoy Jackson,               | <i>Robinson.</i>    |
| Preihs, John Walter,                 | <i>Sandoval.</i>    |
| Richards, Chester William,           | <i>Urbana.</i>      |
| Rodman, Robert,                      | <i>Hoopston.</i>    |
| Schulte, Charles Reinhart,           | <i>Vandalia.</i>    |
| Sigler, Emanuel Christopher,         | <i>Champaign.</i>   |
| Smith, John Stevenson Seymour,       | <i>Urbana.</i>      |
| Stelle, William Harrison,            | <i>McLeansboro.</i> |
| Taylor, Thomas Varence, Jr.,         | <i>Urbana.</i>      |
| Wagoner, Ed Owen,                    | <i>Champaign.</i>   |
| Walcott, Lloyd Vernon, A.B., 1903,   | <i>Urbana.</i>      |
| Wiley, Francis Rudolph, A.B. 1904,   | <i>Sullivan.</i>    |

## Second Year

|                             |                    |
|-----------------------------|--------------------|
| Doss, William Albert,       | <i>Monticello.</i> |
| Ewan, William Clayton,      | <i>Cuba.</i>       |
| Fellheimer, Frank McIntosh, | <i>Macomb.</i>     |
| Filson, James Edwin,        | <i>Champaign.</i>  |

|                                 |                    |
|---------------------------------|--------------------|
| Gannaway, Moody,                | <i>Mattoon.</i>    |
| Garland, Charles Walter,        | <i>Chicago.</i>    |
| Gray, Albert B,                 | <i>Urbana.</i>     |
| McGinley, William,              | <i>Moweaqua.</i>   |
| Matthews, Benjamin Hull,        | <i>Pittsfield.</i> |
| Melton, Harvey Leon,            | <i>Nebo.</i>       |
| Millsaps, Robert P,             | <i>Urbana.</i>     |
| Morey, Henry Hiram,             | <i>Greenville.</i> |
| Palmer, William Gay, A.B. 1901, | <i>Princeton.</i>  |
| Perrin, Lorrain Nicolas,        | <i>Belleville.</i> |
| Plummer, Chiles Preston,        | <i>Biggsville.</i> |
| Price, Benjamin Montague May,   | <i>Champaign.</i>  |
| Price, Lin William,             | <i>Champaign.</i>  |
| Rowand, Kile Edward,            | <i>Sidell.</i>     |
| Scruggs, Amos Potter,           | <i>Litchfield.</i> |
| Staker, Fred Merwyn,            | <i>Clayton.</i>    |
| Wallace, Charles,               | <i>Charleston.</i> |
| Whiteside, William Elmer,       | <i>Joslyn.</i>     |
| William, John Everett,          | <i>Virden.</i>     |

### First Year

|   |                      |
|---|----------------------|
| Amell, J Bruce,                             | <i>Aurora.</i>       |
| Baird, John McCawley,                       | <i>Olney.</i>        |
| Baldwin, Leslie Weaver,                     | <i>Lena.</i>         |
| Barloga, David Frederick,                   | <i>Pecatonica.</i>   |
| Beck, James Peter,                          | <i>Pontiac.</i>      |
| Berry, Glenn Lee,                           | <i>Beardstown.</i>   |
| Brown, Earle Wesley,                        | <i>Genoa.</i>        |
| Brown, Roy Hamlin,                          | <i>Sycamore.</i>     |
| Burroughs, John Edward,                     | <i>Edwardsville.</i> |
| Busey, Marietta Ruth, A.B., ( <i>Vassar</i> |                      |
| <i>Coll.</i> ), 1899,                       | <i>Urbana.</i>       |
| Cherry, Clifford Allen,                     | <i>Oswego.</i>       |
| Child, Walter Ellsworth,                    | <i>Farmingdale.</i>  |
| Clark, Robert Burton,                       | <i>Urbana.</i>       |
| Cleary, James Mansfield,                    | <i>Chicago.</i>      |
| Cohen, Sydney Nathan,                       | <i>Urbana.</i>       |
| Cooper, Homer Hunt,                         | <i>Shelbyville.</i>  |
| Craske, John Logan,                         | <i>Rushville.</i>    |
| Cunningham, Harrison Eugene,                | <i>Jonesboro.</i>    |

Daily, Joseph Earl,  
Dorman, Arch Bland, A.B. 1904,  
Draper, Richard John,  
Dyniewicz, Mathew January,  
Erickson, Cecil Claire,  
Essington, Thurlow Gault,  
Ewing, Charles Raymond,  
Feageans, Ray Frank,  
Finch, Earl De Vere,  
Fisher, Leon Ernest,  
Forman, Hamilton McClure,  
Gordley, William Thomas,  
Hall, Frank Adolphus,  
Hays, Herbert Augustus,  
Hurford, Roland Rogers,  
Hurlbut, James Ernest,  
Johnson, Alfred Atwood,  
Kultchar, Eugene Frank,  
Lewis, Philo Omar,  
Lewis, Thomas Beach,  
Marsh, Charles Mason,  
Middlecoff, Royal Landon,  
Miller, Paul Huston,  
Miller, William Townshend,  
Moore, Clyde,  
Morrison, John Emery,  
Nebeker, Mark Edmond,  
Price, Harvey Daniel, Jr.,  
Putting, Oscar John,  
Ransom, Albert Richardson,  
Reden, William Franklin,  
Simpson, Clark,  
Skinner, Will Kenneth,  
Smith, Lowell Babcock,  
Stansbury, William Morris,  
Vandersloot, Louis Albert,  
Walker, George Richelieu,  
Walter, Will Arthur,  
Warder, Walter Bain,  
Warnock, Arthur Ray, A.B., 1905,  
Westervelt, Leverett Chase,

*Chillicothe.*  
*Taylorville.*  
*Franklin Park.*  
*Chicago.*  
*Farmer City.*  
*Streator.*  
*Macomb.*  
*Peoria.*  
*Flora.*  
*Springfield.*  
*E. St. Louis.*  
*Virginia.*  
*Peoria.*  
*Elkville.*  
*Glencoe.*  
*Fulton.*  
*Danville.*  
*Winnetka.*  
*Rockford.*  
*Fairbury.*  
*Upper Alton.*  
*Hillsboro.*  
*Harvey.*  
*McLeansboro.*  
*Westfield.*  
*Danvers.*  
*Clinton, Ind.*  
*Wilberton, I. T.*  
*Springfield.*  
*Newton.*  
*Prophetstown.*  
*Mackinaw.*  
*Griggsville.*  
*Sycamore.*  
*Joliet.*  
*Farmington.*  
*St. Louis, Mo.*  
*Mattoon.*  
*Cairo.*  
*Mason City.*  
*Shelbyville.*

|                            |                 |
|----------------------------|-----------------|
| Wham, Fred Louis,          | <i>Carlter.</i> |
| White, Horace, Clinton,    | <i>Urbana.</i>  |
| Wooldridge, Eugene Blaine, | <i>Gifford.</i> |
| Wyatt, Roscoe D,           | <i>Salem.</i>   |

## SPECIALS

|                               |                                      |
|-------------------------------|--------------------------------------|
| Beach, Harold Cecil,          | <i>Vandalia.</i>                     |
| Busch, Louis Arthur,          | <i>Urbana.</i>                       |
| Colvin, John Thomas,          | <i>Urbana.</i>                       |
| Crill, John Wilson,           | <i>Rockford.</i>                     |
| Dodd, Roy R,                  | <i>Anna.</i>                         |
| Ehrgott, Otto Ameal,          | <i>Quincy.</i>                       |
| Galeener, Wilbur Fiske,       | <i>Champaign.</i>                    |
| Gilmore, Joseph Grover,       | <i>Danville.</i>                     |
| Gorey, Thomas Vincent,        | <i>Joliet.</i>                       |
| Hilario, John Fernando,       | <i>Batangas, Batangas, P. I.</i>     |
| Kendall, John Samuel,         | <i>Cobden.</i>                       |
| Kent, Homer Edward,           | <i>Argenta.</i>                      |
| Kost, John Clinton,           | <i>Bushnell.</i>                     |
| Lane, Clyde Clarence,         | <i>Champaign.</i>                    |
| Lawyer, John C,               | <i>Tennessee.</i>                    |
| Lill, Herbert Frederick,      | <i>Mascontah.</i>                    |
| Lybarger, Rufus Edward,       | <i>Aron.</i>                         |
| Lyon, Edward Landon,          | <i>Aurora.</i>                       |
| McLennan, Arthur,             | <i>Urbana.</i>                       |
| Mercer, Rufus Seth,           | <i>Centralia.</i>                    |
| Messick, Joseph Breckenridge, | <i>E. St. Louis.</i>                 |
| Moran, Harry Cumming,         | <i>Canton.</i>                       |
| Moynihan, Charles Joseph,     | <i>White Hall.</i>                   |
| Riley, Roy Lynn,              | <i>Morrison.</i>                     |
| Santos, Josée Abad,           | <i>San Fernando, Pampanga, P. I.</i> |
| Swisher, Jacob Armstrong,     | <i>Wellington.</i>                   |
| Tallmadge, Floyd Carlile,     | <i>Geneva, Neb.</i>                  |
| Thal, Hugo John,              | <i>Champaign.</i>                    |
| Wahlheim, Frank John,         | <i>Geneseo,</i>                      |
| Winter, Charles Joseph,       | <i>Washington, Ia.</i>               |

## COLLEGE OF MEDICINE

(College of Physicians and Surgeons, Chicago.)

## SENIORS

|   |                          |
|---|--------------------------|
| Abbott, Effie Louise,                         | <i>Dowagiac, Mich.</i>   |
| Anderson, Alma Saraphia,                      | <i>Seattle, Wash.</i>    |
| Andrews, Howard,                              | <i>Topeka, Kas.</i>      |
| Ballance, Charles, Jr.,                       | <i>Peoria.</i>           |
| Barrett, Fred Thornton,                       | <i>Chicago.</i>          |
| Bauer, Frederick,                             | <i>Center Point, Ia.</i> |
| Beamer, Loetta Christina,                     | <i>Blissfield, Mich.</i> |
| Beeson, Benjamin Barker,                      | <i>Chicago.</i>          |
| Benson, Iver Simeon,                          | <i>Petersburg, Minn.</i> |
| Benson, Lester Jarvis, M.D., ( <i>Chicago</i> |                          |
| <i>Homeopathic Coll.</i> ), 1903,             | <i>Chicago.</i>          |
| Bent, Frank Homer,                            | <i>Wabash, Ind.</i>      |
| Berglund, Simon, A.B., ( <i>Augustana</i>     |                          |
| <i>Coll.</i> ), 1901,                         | <i>Marinette, Wis.</i>   |
| Boal, Daniel,                                 | <i>Chicago.</i>          |
| Bock, John Jay,                               | <i>Iowa Falls, Ia.</i>   |
| Bogardus, Fred Brown, M.D.,                   |                          |
| ( <i>Chicago Homeopathic Coll.</i> ), 1901,   | <i>Somers, Mont.</i>     |
| Bowen, Jesse Clark,                           | <i>Maquoketa, Ia.</i>    |
| Bowman, William Townzen, Ph.G.,               |                          |
| ( <i>Chicago Coll. of Pharmacy</i> ), 1898,   | <i>Moscaqua.</i>         |
| Bowsher, Frank Llewellyn,                     | <i>Greenville, O.</i>    |
| Brazier, Aaron Walter, M.D., ( <i>Flint</i>   |                          |
| <i>Medical Univ.</i> ), 1905,                 | <i>Hahnville, La.</i>    |
| Brewer, Ernest Franklin,                      | <i>Farmington.</i>       |
| Brosseau, Jesse Edward, Ph.G., ( <i>S.</i>    |                          |
| <i>Dak. Agricultural Coll.</i> ), 1900; B.S.  |                          |
| ( <i>Same</i> ), 1901,                        | <i>Chicago.</i>          |
| Brown, Harry Stafford,                        | <i>Noblesville, Ind.</i> |
| Brucker, Matthew William,                     | <i>Fond du Lac, Wis.</i> |
| Buchanan, Edward James,                       | <i>Racine, Wis.</i>      |
| Bybee, Addison,                               | <i>Rochester, Ind.</i>   |
| Carman, Henry Ferrell,                        | <i>Anaconda, Mont.</i>   |
| Cathcart, William Frederick,                  | <i>Chicago</i>           |
| Clark, Edward Harry,                          | <i>Vinton, Ia.</i>       |
| Clement, Charles Clinton, A.B.,               |                          |
| ( <i>Illinois Coll.</i> ), 1901,              | <i>Greenfield.</i>       |

- Cohen, Hyman, *Chicago.*  
 Cooper, S. Rachel Merrill, M.D.,  
     *(Eclectic Medical Coll.)*, 1902, *Rossville.*  
 Cremin, William Joseph S., Ph.G.,  
     *(New York State Board of Pharmacy)*, 1900, *New York City.*  
 Croft, Albert Joseph, *Chicago.*  
 Cronin, John James, *Chicago.*  
 Cutler, Edwin, *Preston, Idaho.*  
 Cyphers, Fred Bean, M.D., *(Lincoln Medical Coll.)*, 1905, *Rising City, Neb.*  
 Danek, Eric Jacob, *Chicago.*  
 Davis, Robert Anthony, *Chicago.*  
 Davis, Russell Newton, *Hanna, Ind.*  
 Dewey, Fred Girard, *Moville, Ia.*  
 Dolan, William Morgan, D.D.S.,  
     *(Chicago Coll. of Dental Surgery)*,  
     1898, *Chicago.*  
 Dougherty, William Byrne, A.B.,  
     *(Univ. of Miss.)*, 1903, *Coldwater, Miss.*  
 Duguid, James Henry, *Ray, Ind.*  
 Dunscombe, William Colby, *Portland, Me.*  
 Dvorak, Georgiana Margaret, *Chicago.*  
 Edgcomb, John Harold, *Utica.*  
 Edison, Samuel M., *Chicago.*  
 Egan, J. James, *Chicago.*  
 Fairhall, Leo Victor, *Danville.*  
 Fast, Harry DeWitt, *Princeville.*  
 Feagler, Jesse Peter, *Waterloo, Ind.*  
 Fenton, Thomas J., *Ames, Ia.*  
 Finney, Ernest Orion, *Rankin.*  
 Fischer, Albert Michael, *Jefferson, Wis.*  
 Flannery, Robert Emmett, *Lone Rock, Wis.*  
 Flynn, Helen B., *Chicago.*  
 Fomon, Samuel, *Chicago.*  
 Ford, Ernest Jason, A.B., *(Univ. of Illinois)* 1905, *Prairie Center.*  
 Frederick, Cary Dennie, M.D., *(Mc-harry Medical Coll.)*, 1905, *Orangeburg, S. C.*  
 Furstman, Jacob Milton, *Chicago.*  
 Garstang, Ira Clifford, *Chicago.*

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|--|--------------------------|
| Glenn, Edward Andrew,  | <i>Chicago.</i>          |
| Grable, Harry G.,  | <i>Logansport, Ind.</i>  |
| Grove, John Leon,  | <i>Newton, Kas..</i>     |
| Grua, Oscar E.,  | <i>Howard, S. D.</i>     |
| Gwinn, Ernest Clarke,  | <i>Oakland.</i>          |
| Haeffner, Albert William,  | <i>Chicago.</i>          |
| Halsey, William Howard,  | <i>Milwaukee, Wis.</i>   |
| Hamel, Clarence Earl,  | <i>Milwaukee, Wis.</i>   |
| Hammond, Walter Donald, M.D.,  |                          |
| ( <i>Illinois Medical Coll.</i> ), 1900,                                   | <i>Isanti, Minn.</i>     |
| Hanelin, William Benjamin,   | <i>Chicago.</i>          |
| Harper, Homer Benton,  | <i>Hillsboro, O.</i>     |
| Harris, Chester E., A.M., ( <i>Univ. of</i>                                |                          |
| <i>Illinois</i> ), 1903,   | <i>Ogden.</i>            |
| Harris, Louis J.,  | <i>Chicago.</i>          |
| Harris, Ray Rhinaldo,  | <i>Champaign.</i>        |
| Harwood, Dorsey A.,  | <i>Ancona.</i>           |
| Hatfield, Lena, A.B., ( <i>Simpson Coll.</i> ),                            |                          |
| 1895,  | <i>Chicago.</i>          |
| Hattendorf, Jessie,  | <i>Waterloo, Ia.</i>     |
| Hawkinson, Oscar,  | <i>Millersburg.</i>      |
| Hayes, Karl Lowell,  | <i>Pleasant Plains.</i>  |
| Helwig, Alvin George,  | <i>Chicago.</i>          |
| Hench, John Madison,   | <i>Watsonville, Cal.</i> |
| Henderson, Clarence,   | <i>Topeka, Kas.</i>      |
| Henderson, Ralph Cambern, M.D.,  |                          |
| ( <i>Kansas City Medical Coll.</i> ), 1899,                                | <i>Eric, Kas.</i>        |
| Higginbotham, Thomas Lafayette,  | <i>Creelsboro, Ky.</i>   |
| Hill, Armina Sears,  | <i>Kansas City, Mo.</i>  |
| Holliday, Oliver Morton,   | <i>Chicago.</i>          |
| Hollis, John Claude,   | <i>Fond du Lac, Wis.</i> |
| Holmes, Ralph Randall, A.M., ( <i>Illinois Wesleyan Univ.</i> ), 1898,     | <i>Bloomington.</i>      |
| Hoover, Enos Musser,   | <i>Nappanee, Ind.</i>    |
| Horn, Emmett Eugene,   | <i>Moulton, Ia.</i>      |
| Hotchkiss, Walter Booth, M.D., ( <i>Chicago Homeopathic Coll.</i> ), 1904, | <i>Riverside,</i>        |
| Hovey, Clara Adella, M.D., ( <i>Coll. of</i>                               |                          |
| <i>Medicine and Surgery; Chicago</i> ), 1903,                              | <i>Chicago.</i>          |
| Howard, Charles Earl,  | <i>Clermont, Ind.</i>    |
| Jackson, Charles Augustus,   | <i>Houston, Tex.</i>     |

- Kane, Isaac Jacob, M.D., (*Flint Medical Coll.*), 1905, *New Orleans, La.*
- Kauffman, Edwin Jerome, *Marion Junction, S. D.*
- Keller, Samuel Alvin, *Sioux Falls, S. D.*
- Kennelley, Frank Clair, *Easton.*
- Klein, Herman Armin, M.D., (*Jenner Medical Coll.*), 1899 *Chicago.*
- Kleinschmidt, George John, *Milwaukee, Wis.*
- Knappenberger, T. Gaillard, *Macomb.*
- Knowles, Edwin Winslow, *Chicago.*
- Konzelman, John Albert, *Chicago.*
- Kraus, Harry A., *Chicago.*
- Krueger, Arthur H. R., *Chicago.*
- Lane, Henry, M.D., (*National Medical Coll., Chicago*), 1902 *Chicago.*
- Langworthy, George Lucene, *Massena, Ia.*
- Lawrence, Mabel Claire, *Ft. Worth, Tex.*
- Lawson, John Fonrose, *Neoga.*
- Lexa, Frank Joseph, *Wheatland, Minn.*
- Linn, Ellis Gregg, M.D., (*Hahnemann Medical Coll.*), 1889, *Mt. Pleasant, Ia.*
- Loofbourrow, Elias Homer, *New Madison, O.*
- Luken, Martin Girard, *Chicago.*
- Lutyens, George Benjamin, *Rochester.*
- MacGillivray, Duffield Dufferin, *Muir, Mich.*
- McLane, George Albert, *Whitewater, Wis.*
- MacMillan, Lachlan, *Vancouver, B. C.*
- McMurray, Ray James, *Francesville, Ind.*
- Maher, Thomas Francis, *Chicago.*
- Miller Leo Cassius, *Princeville.*
- Miller, Noble William, *Chicago.*
- Moldenhauer, William John, *Des Plaines.*
- Monzingo, Arthur Seely, M.D., (*Keokuk Medical Coll.*), 1905, *Coin, Ia.*
- Moore, Ralph Vernon, *Chicago.*
- Morrow, Louise, *Rockford.*
- Movius, Alfred Henry, *Lidgerwood, N. D.*
- Murray, Dudley Ellis, *Markle, Ind.*
- Nathan, Edward Ellis, M.D., (*American Medical Coll., Chicago*), 1905, *Chicago.*
- Nathanson, Charlotte, *Chicago.*

|   |                                |
|---|--------------------------------|
| Nathanson, Joseph Lawrence,   | Chicago.                       |
| Nebeker, Elbert Ferguson, Ph.G.,<br>( <i>Chicago Coll. of Pharmacy</i> ), 1895,         | Chicago.                       |
| Nee, Frank,   | Richland Center, Wis.          |
| Newell, Floyd William,  | Ottumwa, Ia.                   |
| Northcross, David Caneen,   | Flint, O.                      |
| Novashelsky, Benjamin Sol,  | Chicago.                       |
| O'Connell, John Patrick,  | Bloomington.                   |
| O'Leary, Thomas Joseph,   | Wabash, Minn.                  |
| Olson, Alfred Louis,  | Stoughton, Wis.                |
| O'Neill, John Patrick,  | Chicago.                       |
| O'Neil, William Edward, A.B., ( <i>St. Ignatius Coll., Chicago</i> ), 1902,             | Chicago.                       |
| Osborn, George Robert,  | Hanna, Ind.                    |
| Parks, Samuel J.,   | Chicago.                       |
| Parsons, Irving Wheeler,  | Chicago.                       |
| Patton, Don William, M.D., ( <i>Dcarborn Medical, Chicago</i> ), 1905,                  | Chicago.                       |
| Peisch, Benjamin Frederick,   | Burlington, Ia.                |
| Peters, LeRoy S.,   | St. Joseph, Mich.              |
| Peterson, Martin David Ephraim,   | Paxton.                        |
| Pettit, Herbert Leroy,  | Chicago.                       |
| Pickrell, William Benjamin, M.D.,<br>( <i>Dunham Medical Coll., Chicago</i> ),<br>1898, | Springfield.                   |
| Pierce, Joseph Cooper,  | Ridgcfarm.                     |
| Pillinger, Herbert Henry,   | Chicago.                       |
| Pinkerton, Harry Blaine, M.D., ( <i>Chicago Homcopathic Coll.</i> ), 1903,              | Chicago.                       |
| Pitz, Robert Henry,   | Chicago.                       |
| Pollock, Lewis John,  | Chicago.                       |
| Provine, George Sumner,   | Macomb.                        |
| Pryor, Ray Ethelbert, A.B.,<br>( <i>Onachita Coll.</i> ), 1903,                         | Camden, Ark.                   |
| Rach, Emil Arthur,  | Mitchell, Wis.                 |
| Rego, Alfred d'Almeida,   | St. Michael, Azores, Portugal. |
| Reiss, Oscar,   | Chicago.                       |
| Rice, Merton Henry,   | Barron, Wis.                   |
| Rickard, Edward Thomas, M.D., ( <i>Cotner Univ., Lincoln Neb.</i> ), 1897,              | Wccping Water, Neb..           |
| Ricketts, Joy,  | Ft. Collins, Colo.             |

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|--|---------------------------|
| Ridle, Miles David,  | <i>Perry, Ia.</i>         |
| Ridley, William Alvah,   | <i>Clearwater, Minn.</i>  |
| Ries, Annie Frances,   | <i>Neeleyville, Mo.</i>   |
| Rinkenberger, Frederick W.,  | <i>Tacoma, Wash.</i>      |
| Roach, Richard Morrison, M.D.,<br>( <i>Jenner Medical, Chicago</i> ), 1904,                | <i>Chicago.</i>           |
| Robb, Charles Elbert,  | <i>Rock Island.</i>       |
| Robin, Samuel M.,  | <i>Chicago.</i>           |
| Rose, Joseph,  | <i>Green Bay, Wis.</i>    |
| Rosenzweig, Louis,   | <i>Chicago.</i>           |
| Ross, George William,  | <i>Chicago.</i>           |
| Ross, Robert Malcolm, A.B., ( <i>Univ.</i><br><i>of Illinois</i> ), 1905,                  | <i>Chicago.</i>           |
| Rost, John Frederick Wilken,   | <i>Petersburg.</i>        |
| Rutkauskas, Anthony Kazis,   | <i>Chicago.</i>           |
| Salomon, Richard Sigmund Hau,  | <i>Chicago.</i>           |
| Sandven, Nels O.,  | <i>Ames, Ia.</i>          |
| Schaffarzick, Charles Frank, Ph.G.,<br>( <i>Chicago Coll. of Pharmacy</i> ), 1901,         | <i>Livingston, Mont.</i>  |
| Schmidt, Lawrence Maurice,   | <i>Belvidere.</i>         |
| Schroeder, George Henry,   | <i>Chicago.</i>           |
| Schwartz, Mary,  | <i>Chicago.</i>           |
| Schwartz, Reinhard Frederick,  | <i>Lyons, Ia.</i>         |
| Sears, Heber J.,   | <i>Chicago.</i>           |
| Secker, William Valentine,   | <i>Wheaton.</i>           |
| Sells, William Arthur,   | <i>Greenwood, Ind.</i>    |
| Sepple, Edward Gerald, M.D., ( <i>Dear-</i><br><i>born Medical Coll., Chicago</i> ), 1904, | <i>Chicago.</i>           |
| Sexton, Ira J.,  | <i>Chicago.</i>           |
| Sharrer, Frank Leslie,   | <i>Francesville, Ind.</i> |
| Shelly, Hargus Gerald,   | <i>Mulvane, Kas.</i>      |
| Siders, W. Bert,   | <i>New Carlisle, Ind.</i> |
| Simmons, Jay Claude,   | <i>Canton.</i>            |
| Smith, Charles Kenneth,  | <i>Kankakee.</i>          |
| Smith, Harvey LeRoy,   | <i>Sadorus.</i>           |
| Smith, Samuel Darwin, M.D., ( <i>Chicago</i><br><i>Homeopathic Coll.</i> ), 1896,          | <i>Rushville.</i>         |
| Smith, William Lester,   | <i>Toledo.</i>            |
| Sorenson, Alfred Renhart, A.B., ( <i>Luther</i><br><i>Coll.</i> ), 1902,                   | <i>Harmony, Minn.</i>     |

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|---------------------------------------|-------------------|
| Standard, Alphonso Perry, A.B.,       |                   |
| (Univ. of Illinois), 1905,            | Lewistown.        |
| Stevens, Fred Warner,                 | Chicago.          |
| Stevenson, Andrew Willis,             | Albert Lea, Minn. |
| Stewart, Alfred Jesse, M.D., (Hahne-  |                   |
| mann Coll., Chicago), 1896,           | Mitchell, Neb.    |
| Stone, French F.,                     | Chicago.          |
| Stuart, Gerhardus Johannes, A.B.,     |                   |
| (Hope Coll.), 1903,                   | Orange City, Ia.  |
| Stull, Katherine Cecil,               | Auburn, Neb.      |
| Sunderland, William Eben,             | Cavette, O.       |
| Swindle, Robert Norris,               | Ryan, Ia.         |
| Szopinski, Aloysius,                  | Chicago.          |
| Theobald, Frank John,                 | Niles Center.     |
| Thomas, Harry V.,                     | Chillicothe.      |
| Thompson, Orris Martin,               | Ellsworth.        |
| Tillotson, C. Homer,                  | Chicago.          |
| Trout, Frank Marshall, M.D., (Bennett |                   |
| Medical Coll.), 1905,                 | Chicago.          |
| Van de Erve, Walter, M.D., (Grand     |                   |
| Rapids Medical Coll.), 1901,          | Holland, Mich.    |
| Van Dellen, Robert Lubert, M.D.,      |                   |
| (Hahnemann Medical Coll.), 1901,      | Chicago.          |
| Van Ness, J. Howard, M.D., (Dear-     |                   |
| born Medical Coll.), 1905,            | Chicago.          |
| Van Zant, Noble,                      | Berrysville, O.   |
| Wagner, Frederick Johannes,           | Chicago.          |
| Walters, William Alexander, B.S.,     |                   |
| (Univ. of Wis.), 1904,                | Chicago.          |
| Watkins, Rachel Ann,                  | Cambridge, Neb.   |
| West, William Butler,                 | Chicago.          |
| White, Eleanor Virginia Gynne Inman,  |                   |
| M.D., (Barnes Medical Coll., Chi-     |                   |
| cago), 1904,                          | Chicago.          |
| Wichmann, Frederick William, M.D.,    |                   |
| (Dearborn Medical Coll.), 1905,       | Chicago.          |
| Wickstrom, Albert Michael,            | Chicago.          |
| Wilson, Joshua Haven, M.D., (Me-      |                   |
| harry Medical), 1905,                 | Florence, N. C.   |
| Winkler, Frank Paul,                  | Doon, Ia.         |
| Winsor, Richard Frederick,            | Neponset.         |
| Wood, William Walter,                 | Chicago.          |

|                                      |                     |
|--------------------------------------|---------------------|
| Woodhull, Maurice Welch,             | <i>Topeka, Kas.</i> |
| Woodnick, George W.,                 | <i>Chicago.</i>     |
| Woods, Bert Leslie Taylor,           | <i>Chicago.</i>     |
| Wynekoop, Gilbert Havens, B.S.,      |                     |
| ( <i>Northwestern Univ.</i> ), 1903, | <i>Chicago.</i>     |
| Yampolsky, Rebecca Miriam,           | <i>Chicago.</i>     |

## JUNIORS

|   |                            |
|---|----------------------------|
| Aaker, Adolph O.,   | <i>Ridgeway.</i>           |
| Abdouh, Othman L.,  | <i>Cairo, Egypt.</i>       |
| Aimone, John,   | <i>Toluca.</i>             |
| Allison, Charles Newton,  | <i>Good Hope.</i>          |
| Andreen, Frank Godfrey, A.B., ( <i>Lombard Univ.</i> ), 1904,   | <i>Woodhull.</i>           |
| Arnold, Mott Hunton,  | <i>Robinson.</i>           |
| Augspurger, Elmer David,  | <i>Pulaski, O.</i>         |
| Bachmann, Arthur Simon,   | <i>Decatur.</i>            |
| Ball, Elizabeth B.,   | <i>Quincy.</i>             |
| Ballard, Charles Anson,   | <i>Logansport, Ind.</i>    |
| Bartholomew, Eric Kline,  | <i>Chicago.</i>            |
| Benker, Bernard Johann,   | <i>Chicago.</i>            |
| Birmingham, Eugene Emmett,                                      | <i>Chicago.</i>            |
| Bissell, Burt George,   | <i>Chicago.</i>            |
| Briggs, Francis Earl,   | <i>Gibson City.</i>        |
| Buckner, Arthur Jefferson,                                      | <i>Hayden P. O., I. T.</i> |
| Bulger, Charles Oliver,   | <i>Gibson City.</i>        |
| Bundy, Herman Winford,  | <i>Lebanon, Ind.</i>       |
| Camp, Foster Kendrick,  | <i>Chicago.</i>            |
| Chapman, Frances P.,  | <i>Oak Park.</i>           |
| Clark, John Edward,   | <i>Baraboo, Wis.</i>       |
| Clarke, Fred B.,  | <i>Drakesville, Ia.</i>    |
| Conroy, Charles Larkin, A.B., ( <i>Marquette Coll.</i> ), 1898, | <i>Milwaukee, Wis.</i>     |
| Conser, William Henry,  | <i>Galesburg.</i>          |
| Crofut, Martha Marilla,   | <i>La Grange.</i>          |
| Crosier, William McKee,   | <i>Alexis.</i>             |
| Cunningham, Joseph Louis,                                       | <i>Burlington, Wis.</i>    |
| Curtis, William J. Demorest,                                    | <i>Bailey, Mich.</i>       |
| Davenport, George Luther,                                       | <i>Chicago.</i>            |
| Davey, John Michael, Jr.,                                       | <i>Ponca, Neb.</i>         |
| Disney, Fred Robert,  | <i>Zumbro Falls, Minn.</i> |

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| Edmonson, Oscar Boone,   | <i>Clinton.</i>            |
| Edwards, James Albert,   | <i>Dallas, Tex.</i>        |
| Eidam, Louis W.,   | <i>Blue Island.</i>        |
| Ettelson, Jesse,   | <i>Sprague, Wash.</i>      |
| Fischer, Charles Edward Max,   | <i>Chicago.</i>            |
| Fletcher, David Livingston,  | <i>Orchard, Neb.</i>       |
| Forster, Arthur Leopold,   | <i>Sterling.</i>           |
| Franklin, Grover Cleveland,  | <i>Clinton, S. C.</i>      |
| Gaff, John Harry,  | <i>Denver, Colo.</i>       |
| Gahl, Otto Albert,   | <i>Chicago.</i>            |
| Graybeal, James,   | <i>Ihava.</i>              |
| Griffin, Francis Joseph, A.B., ( <i>All-Hal-</i><br><i>lows Coll.</i> ), 1903, | <i>Butte, Mont.</i>        |
| Ground, Holland Todd,  | <i>West Superior, Wis.</i> |
| Gunn, William Parker,  | <i>Janesville, Wis.</i>    |
| Hageman, Silas Van,  | <i>Pontiac.</i>            |
| Hansen, Robert Rochester,  | <i>Chicago.</i>            |
| Hart, Esther Alice,  | <i>Chicago.</i>            |
| Hecht, M. Charles,   | <i>Chicago.</i>            |
| Henneberry, Thomas Jerome,   | <i>Gilman City, Ia.</i>    |
| Hills, Robert Asa,   | <i>Mt. Pleasant, Ia.</i>   |
| Holm, John Herman,   | <i>Eau Claire, Wis.</i>    |
| Horton, Clyde Switzer,   | <i>Fennimore, Wis.</i>     |
| Huston, Ross,  | <i>Blandinsville.</i>      |
| Jenkins, Hilerd Enno,  | <i>Villesca, Ia.</i>       |
| Jewell, Earl Bowen,  | <i>Danville.</i>           |
| Johnson, Johannes,   | <i>Newmans Grove, Neb.</i> |
| Karara, Hassan Hilmy,  | <i>Cairo, Egypt.</i>       |
| Keith, Willis Elmer,   | <i>Clinton, Ia.</i>        |
| Kingsbury, Herman Buchanan,  | <i>Pinkstaff.</i>          |
| Koch, Albert Garfield,   | <i>Enterprise, Kas.</i>    |
| Kusske, Arthur Louis,  | <i>Gaylord, Minn.</i>      |
| Leebens, John H.,  | <i>Fulda, Minn.</i>        |
| Leicht, Phillip,   | <i>Milwaukee, Wis.</i>     |
| Lemmel John Taggart,   | <i>Evansville, Wis.</i>    |
| Lovell, Arthur Irving,   | <i>Milwaukee, Wis.</i>     |
| McKay, Robert David,   | <i>Chicago.</i>            |
| Maguire, James Bernard,  | <i>Chicago.</i>            |
| Mautz, George John, A.B., ( <i>Univ. of</i><br><i>Illinois</i> ), 1904,        | <i>Pana.</i>               |
| Mayos, Charles Everett,  | <i>Council Grove, Kas.</i> |

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|---|-----------------------------|
| Mercer, Whedon Worley,                      | <i>Peoria.</i>              |
| Mesirow, Maurice Elias,                     | <i>Chicago.</i>             |
| Meyerovitz, Max,                            | <i>Chicago.</i>             |
| Mirabella, Salvador Frank Joseph,           | <i>Chicago.</i>             |
| Mitchell, Joseph Henry,                     | <i>Franklin, La.</i>        |
| Muirhead, Walter Scott,                     | <i>Chicago.</i>             |
| Nathanson, Frank Louis,                     | <i>Chicago.</i>             |
| Nelles, J. E. Earle,                        | <i>Chicago.</i>             |
| Nilsson, Betty Augustine,                   | <i>Rockford.</i>            |
| Olson, Olaf Adolphus,                       | <i>Axel, Minn.</i>          |
| Oughton, James Henry,                       | <i>Dwight.</i>              |
| Pearson, August Walter,                     | <i>Kensington, Minn.</i>    |
| Peterson, Axel Emanuel,                     | <i>Chicago.</i>             |
| Phillips, Nelson Chancellor, A.B.,          |                             |
| <i>(Univ. of Illinois), 1905, Lena.</i>     |                             |
| Port, Irwin Augustus,                       | <i>Wilton Junction, Ia.</i> |
| Pynn, Roy Clyde,                            | <i>Hartland, Wis.</i>       |
| Richardson, Bertram Arthur,                 | <i>Pontiac.</i>             |
| Rigterink, Herman A.,                       | <i>Grand Rapids, Mich.</i>  |
| Roads, Wilbur Berry,                        | <i>Hillsboro, O.</i>        |
| Rodermund, Arthur Matthew,                  | <i>Milwaukee, Wis.</i>      |
| Rose, Cameron Alfred,                       | <i>Oak Park.</i>            |
| Schiffbauer, Hans,                          | <i>Benson.</i>              |
| Schwartz, Alfred Charles,                   | <i>Chicago.</i>             |
| Seippel, Clara Pauline,                     | <i>Chicago.</i>             |
| Sekler, Charlotte Margaretha,               | <i>Princeton.</i>           |
| Seibert, Henry Hulse,                       | <i>Chicago.</i>             |
| Shearer, Ansly Thomas,                      | <i>Fennimore, Wis.</i>      |
| Sher, Samuel George,                        | <i>Chicago.</i>             |
| Sherper, Myron,                             | <i>Milwaukee, Wis.</i>      |
| Siedenburg, Frank, Ph.G., <i>(Coll. of</i>  |                             |
| <i>Pharmacy, Chicago), 1898,</i>            |                             |
| Smith, George Mortimer,                     | <i>Elizabeth.</i>           |
| Smith, Hiram Jay,                           | <i>Eau Claire, Wis.</i>     |
| Staley, Wilbert,                            | <i>Oakfield, Wis.</i>       |
| Steiner, J. Carl,                           | <i>Montgomery, Mich.</i>    |
| Swan, Earl Berrie,                          | <i>Loraine.</i>             |
| Thuerer, Edward Walter, B.L., <i>(Univ.</i> |                             |
| <i>of Wisconsin), 1903,</i>                 |                             |
| Toeller, John Joseph,                       | <i>Baraboo, Wis.</i>        |
| Toren, Julius Arthur,                       | <i>Chicago.</i>             |
|   | <i>Grand Rapids, Mich.</i>  |

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|---|---------------------------|
| Unger, Charles,   | <i>Rochelle.</i>          |
| Wade, Robert Lavern,  | <i>La Grange, Ind.</i>    |
| Wagner, Earl P., Ph.C., ( <i>Purdue Univ.</i> ), 1897,      | <i>South Bend, Ind.</i>   |
| Wakefield, William Bard,                                    | <i>Heyworth.</i>          |
| Wassom, George,   | <i>Pontiac.</i>           |
| Whitehill, John Emerson,                                    | <i>Chicago.</i>           |
| Whiteley, Joseph Hall, Ph.G., ( <i>Drake Univ.</i> ), 1902, | <i>Bonaparte, Ia.</i>     |
| Wilson, Pitt Stevens,                                       | <i>Bessemer, Mich.</i>    |
| Wochos, Frank Joseph,                                       | <i>Stangelville, Wis.</i> |
| Wolinsky, Maurice Benjamin,                                 | <i>Chicago.</i>           |
| Wood, Jay Thomas,   | <i>Springfield.</i>       |
| Woodcock, Albert Snyder,                                    | <i>Byron.</i>             |
| Zalesky, Rose Emma,   | <i>St. Paul, Minn.</i>    |

## SOPHOMORES.

|  |                        |
|--|------------------------|
| Arnold, Edward Max,  | <i>Winnetka.</i>       |
| Ascott, George Walter, Ph. G., ( <i>Univ. of Wis.</i> ), 1895, | <i>Sheridan, Mont.</i> |
| Bates, Charles Richard,  | <i>Camp Point.</i>     |
| Berger, John Milton, A.B., ( <i>Univ. of Illinois</i> ), 1903, | <i>Dalton.</i>         |
| Berry, Frederick Amon,   | <i>Pittsfield.</i>     |
| Biwer, Edward Theodore,  | <i>Lincoln.</i>        |
| Bledsoe, George Willis,  | <i>Creelsboro, Ky.</i> |
| Brinckerhoff, Elmer Ellsworth,                                 | <i>Lockport.</i>       |
| Burnett, Wesley Edward, B.S.D.,                                |                        |
| ( <i>Lincoln Inst.</i> ), 1903,                                | <i>St. Louis, Mo.</i>  |
| Cavanor, Frank T., A.B., ( <i>Univ. of Illinois</i> ), 1903,   | <i>Chicago.</i>        |
| Christopher, Harry V.,   | <i>London, O</i>       |
| Clark, Floyd Ferdinand,  | <i>Higbee, Mo.</i>     |
| Clayton, Emanuel Harry,  | <i>Dixon.</i>          |
| Comee, William Clyde,  | <i>Seymour, Wis.</i>   |
| Conroy, Francis James,   | <i>Chicago.</i>        |
| Copeland, Hollestar Norman John,                               | <i>Chicago.</i>        |
| Dennis, James Francis,   | <i>Spickard, Mo.</i>   |
| Dolan, John Edward,  | <i>Kankakee.</i>       |
| Dornblaser, Thomas Franklin,                                   | <i>Chicago.</i>        |
| Dowd, Richard Edward,  | <i>Hastings, Neb.</i>  |

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| Eckman, John Wesley, Jr.,   | <i>Decatur.</i>             |
| Evans, John Henry,  | <i>Chicago.</i>             |
| Fortin, William Henry,  | <i>Chicago.</i>             |
| Freitag, Matilda Mina,  | <i>Stanford.</i>            |
| Fugina, George Romeo,   | <i>Fountain City, Wis.</i>  |
| Gearin, John Joseph,  | <i>Chicago.</i>             |
| Gearon, Frank Emmett,   | <i>Chicago.</i>             |
| Gerety, William Francis,  | <i>Danville.</i>            |
| Gilbert, Lenny Clifford,  | <i>Oakland.</i>             |
| Goembel, Emery Wells,   | <i>Geneseo.</i>             |
| Goldberger, Sollie Maxwell,   | <i>Whiting, Ind.</i>        |
| Gollobith, Edward Frank,  | <i>Baldwin, Ia.</i>         |
| Goudreau, Arthur David, A.B., ( <i>St. Viateur's Coll.</i> ), 1902, | <i>Kankakee.</i>            |
| Gordon, Glenn Godfrey,  | <i>Fairplay, Mo.</i>        |
| Grinde, George Allen, A.B., ( <i>Luther Coll.</i> ), 1903,          | <i>Morrisonville, Wis.</i>  |
| Hartung, Adolph,  | <i>Chicago.</i>             |
| Hayhurst, Emery Roe, A.M., ( <i>Univ. of Illinois</i> ), 1905,      | <i>Mayfield.</i>            |
| Hendricka, Alfred Hudson, A.B., ( <i>Fisk Univ.</i> ), 1904,        | <i>Macon, Ga.</i>           |
| Hennig, Ernst Louis,  | <i>Oshkosh, Wis.</i>        |
| Herren, Christie Calvin,  | <i>Oswego.</i>              |
| Hosmon, Sarah Longworth,  | <i>Newberg, Ind.</i>        |
| Howard, William James,  | <i>Washington, D. C.</i>    |
| Hutchinson, Charles Wesley,   | <i>Ames, Ia.</i>            |
| Ishmael, Oscar,   | <i>Cassville, Wis.</i>      |
| Josselyn, Thyra Hildegarde,   | <i>Detroit, Mich.</i>       |
| Joyce, Thomas Mathias,  | <i>Waterloo, Wis.</i>       |
| Kelly, Andrew Cyril,  | <i>Charles City, Ia.</i>    |
| Knapp, John Luther,   | <i>Franklin Furnace, O.</i> |
| Lalor, Joseph Clinton,  | <i>Oregon, Wis.</i>         |
| Lederer, Arthur,  | <i>Chicago.</i>             |
| Lee, Alice Lulu,  | <i>Sioux Falls, S. D.</i>   |
| Lee, Newton Deyoe,  | <i>Chicago.</i>             |
| Lescher, Edwin Russell,   | <i>Mt. Carmel.</i>          |
| Lunn, Jacob Osmond,   | <i>Chicago.</i>             |
| McCabe, Bernard Vincent,  | <i>Helena, Mont.</i>        |
| McCormick, Roscoe C., B.S., ( <i>Univ. of Illinois</i> ), 1901,     | <i>Idaho City, Idaho.</i>   |

|   |                             |
|---|-----------------------------|
| Marion, Norman Edward,  | <i>Aurora.</i>              |
| Martin, Harry Bond,   | <i>Rochester, N. Y.</i>     |
| Meyer, Carl Albert,   | <i>Gilman.</i>              |
| Mikkelson, Edward Michael,  | <i>Chicago.</i>             |
| Miller, Harry Clifford, B.S., ( <i>Colorado Agricultural Coll.</i> ), 1899, | <i>Hotchkiss, Colo.</i>     |
| Moran, James Michael,   | <i>Manhattan.</i>           |
| Mosser, Robert, Ph.G., ( <i>Chicago Coll. of Pharmacy</i> ), 1891,          | <i>Chicago.</i>             |
| Nathanson, William,   | <i>Chicago.</i>             |
| Neer, Wilmer Young,   | <i>Taylorville.</i>         |
| Noger, George Joseph,   | <i>Chicago.</i>             |
| Norris, Samuel Brown,   | <i>Anna.</i>                |
| Nowack, Louis Henry,  | <i>Watertown, Wis.</i>      |
| Nussle, Albert Charles,   | <i>Chippewa Falls, Wis.</i> |
| O'Connell, Sarah Conley,  | <i>Chicago.</i>             |
| Ostrowski, Romnald Othello,   | <i>Hammond, Ind.</i>        |
| Otrich, Grover Cleveland,   | <i>Anna.</i>                |
| Parks, Jennie Winship,  | <i>Cuba.</i>                |
| Pearce, Warren Frederick,   | <i>Quincy.</i>              |
| Phifer, Frank Marion,   | <i>Shumway.</i>             |
| Quigley, Timothy Charles, A.B., ( <i>St. Ignatius Coll.</i> ), 1904,        | <i>Chicago.</i>             |
| Ranson, Roy Ainsworth,  | <i>Havana.</i>              |
| Reese, Forrest Leslie,  | <i>Paris.</i>               |
| Rosenzweig, George,   | <i>Chicago.</i>             |
| Schroeder, John Cleveland,  | <i>Half Day.</i>            |
| Schuessler, Augustus William,   | <i>Joliet.</i>              |
| Shultz, Ione,   | <i>Delphi, Ind.</i>         |
| Silverberg, Charles William,  | <i>Chicago.</i>             |
| Skwor, Charles James,   | <i>Kelnersville, Wis.</i>   |
| Spear, John Frank,  | <i>Mason City.</i>          |
| Spencer, George Joseph,   | <i>Chicago.</i>             |
| Stawicki, John Paul,  | <i>Chicago.</i>             |
| Stevens, Samuel Butterworth,  | <i>Lake City, Minn.</i>     |
| Thometz, Francis Peter, A.B., ( <i>St. Ignatius Coll.</i> ), 1904,          | <i>Chicago.</i>             |
| Thurber, Harry Robert,  | <i>Yorkville.</i>           |
| Tucker, George Willard,   | <i>Watseka.</i>             |
| Vance, James St. Clair,   | <i>Bement.</i>              |
| Vandermade, Jay Astor,  | <i>Chicago.</i>             |

Wallace, James Henry,  
 Wilson, Frederic Riley,  
 Wood, Annie,  
 Wood, Eulalie,  
 Worthing, Irwin Edwin,

*Ft. Wayne, Ind.*  
*Richland, Ore.*  
*Chicago.*  
*St. Louis, Mo.*  
*West Webster, N. Y.*

### FRESHMEN

Alderson, Starling Peters,  
 Allen, Orris Thomas,  
 Armstrong, Guy Edward,  
 Aschauer, Albert George,  
 Belford, Reuben Charles,  
 Bender, Alva Jacob,  
 Bennett, Myron Elroy,  
 Bernstein, Albert Elliot,  
 Boudreau, Haydee Ursula,  
 Boyd, Eric,  
 Bundy, Clyde Talbot,  
 Burke, Alexander William,  
 Byers, Earle John,  
 Camp, Harold Manlove,  
 Compart, Paul Francis,  
 Cooperstein, Joseph,  
 Cox, James Francis,  
 Crouch, David Proudfit,  
 Davis, Olga,  
 Dunlap, Albert Menzo,  
 Eck, Gustav Elmer,  
 Ehrlich, Oscar Peter,  
 Eliason, Pehr Wilhelm,  
 Elliston, Leroy Bertram,  
 Ely, William Ray,  
 Erwin, Harry George,  
 Ewing, Henry Ellsworth,  
 Formis, John Kirk,  
 Freemmel, Isaac Frank,  
 Furman, Raymond Walter,  
 Gabby, Samuel Lee,  
 Good, Barney Adam,  
 Gregg, Arthur W., Ph.G., (*Northwest-  
 ern School of Pharmacy*), 1904,

*Russellville, Ky.*  
*Brockton.*  
*Green Bay, Wis.*  
*Springfield.*  
*Memphis, Tenn.*  
*Portland, Ore.*  
*Pontiac.*  
*Chicago.*  
*Beaverville.*  
*Newton, Kas.*  
*Iroquois.*  
*Chicago.*  
*Belvidere.*  
*Brooklyn.*  
*Chicago.*  
*Chicago.*  
*Urbana.*  
*Belle Prairie.*  
*Chicago.*  
*Savoy.*  
*Geneva.*  
*Ft. Pierce, Fla.*  
*Moroni, Utah.*  
*Princeton.*  
*Chicago.*  
*Decatur, Ind.*  
*Arcola.*  
*Florence, Italy.*  
*Chicago.*  
*Larson, Wis.*  
*Pawnee City, Neb.*  
*Chicago.*  
  
*Bloomington.*

|                                       |                     |
|---------------------------------------|---------------------|
| Gross, Alfred Otto,                   | Atwood.             |
| Guy, Walter Perry,                    | Winfield, Kas.      |
| Hall, Janet Alletta,                  | Danville.           |
| Hammerstrand, Frank Leonard,          | Rankin.             |
| Harriman, Leonard,                    | Chili, Wis.         |
| Harrison, Bruce Ashton,               | Bryan.              |
| Hork, William B.,                     | Chicago.            |
| Horwitz, Alexander,                   | Chicago.            |
| Hughes, William Talmadge, B.S.,       |                     |
| (Yankton Coll.), 1905,                | Braymer, Mo.        |
| Hurley, George Ira, B.L., (Milton     |                     |
| Coll.), 1903,                         | Milton, Wis.        |
| Jacobson, Harris,                     | Chicago.            |
| Jamison, Vivian Archibald,            | Chicago.            |
| Jindra, Frank,                        | Chicago.            |
| King, Alphonsus Vincent,              | Chicago.            |
| Kipp, Cora Irene,                     | Mineral.            |
| Kirkpatrick, John Wilson,             | Urbana.             |
| Klossoski, Frank John, Ph.G., (North- |                     |
| western School of Pharmacy), 1889,    | Chicago.            |
| Knappenberger, George Emmett,         | Macomb.             |
| Kraut, Elgie,                         | North Andover, Wis. |
| Kubiak, Alexander Stephen, A.B.,      |                     |
| (St. Viateur's Coll.), 1899,          | Calumet, Mich.      |
| Leavy, Cuthbert Joseph,               | Oshkosh, Wis.       |
| Lee, Milo,                            | Aledo.              |
| Lee, Walter Nordal,                   | Sioux Falls, S. D.  |
| Lescher, John Jay,                    | Mt. Carmel.         |
| McCormick, William,                   | Garber.             |
| McGee, Harry,                         | Westfield.          |
| McGuinn, Frank Thomas,                | Chicago.            |
| McIntire, William Russel,             | Mendota.            |
| Mackay, Thomas Daniel,                | Quincy.             |
| Main, Roscoe Conkling,                | Pittsfield.         |
| Mensing, Edmund Hermann,              | Milwaukee, Wis.     |
| Miller, Carl Ware,                    | Sterling.           |
| Miller, Louis Henry,                  | Pana.               |
| Mills, Claude J.,                     | Sabino, O.          |
| Mills, Lewis Delaware,                | Sabino, O.          |
| Minke, Jacob John,                    | Chicago.            |
| Moore, Greene,                        | Chicago.            |

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| Moran, James Henry,                          | <i>Chicago.</i>        |
| Mortensen, Oscar Nicholas,                   | <i>Waupaca, Wis.</i>   |
| Murphey, Walter Thomas,                      | <i>Lima, O.</i>        |
| Musselman, George Henry,                     | <i>Dana, Ind.</i>      |
| Nahman, Adolph Herman,                       | <i>Chicago.</i>        |
| Ochsner, Emil,                               | <i>Waumandee, Wis.</i> |
| Paruch, Maxmilian S.,                        | <i>Chicago.</i>        |
| Pittman, Charles T.,                         | <i>Roseville.</i>      |
| Plenz, Rose Gertrude,                        | <i>Chicago.</i>        |
| Post, George Washington, B.S., ( <i>Mil-</i> |                        |
| <i>ton Coll.</i> ), 1905,                    | <i>Chicago.</i>        |
| Pugh, Bernard McCarthy,                      | <i>Lincoln.</i>        |
| Rose, Emile,                                 | <i>Chicago.</i>        |
| Rose, Wallace Edson,                         | <i>Mukwonago, Wis.</i> |
| Saum, Roy George,                            | <i>Gilman.</i>         |
| Shayinn, James,                              | <i>Oak Park.</i>       |
| Smith, William Polson,                       | <i>Chicago.</i>        |
| Summerfield, Otto Charles,                   | <i>Chicago.</i>        |
| Thomas, William Allen,                       | <i>Chicago.</i>        |
| Tiffin, Edwin Raymond, Ph.G., ( <i>Univ.</i> |                        |
| <i>of Washington</i> ), 1904,                | <i>Spokane, Wash.</i>  |
| Townsley, Frank Livingston,                  | <i>Idaville, Ind.</i>  |
| Turner, John Arthur, Ph.G., ( <i>North-</i>  |                        |
| <i>western School of Pharmacy</i> ), 1903,   | <i>Chicago.</i>        |
| Vaile, De Witt Clinton,                      | <i>Rochelle.</i>       |
| Van Hoesen, Elizabeth Nell,                  | <i>Wilmette.</i>       |
| Willard, Clarence James,                     | <i>Mazomanie, Wis.</i> |
| Wolf, Louis Harry,                           | <i>Chicago.</i>        |
| Yeck, Charles Walter,                        | <i>Flora.</i>          |

#### SPECIALS

|   |                        |
|---|------------------------|
| Beebe, Arthur Herbert, M.D., ( <i>Univ.</i> |                        |
| <i>of Illinois</i> ), 1905,                 | <i>Chicago.</i>        |
| Bennensohn, Samuel A.,                      | <i>Chicago.</i>        |
| Butler, Arthur DeLyons, A.B.,               |                        |
| ( <i>Northwestern Univ.</i> ), 1905,        | <i>Chicago.</i>        |
| Carrico, James H., M.D., ( <i>Univ. of</i>  |                        |
| <i>Illinois</i> ), 1902,                    | <i>Woodburn, Ore.</i>  |
| Crawford, Walter Henry, M.D.,               |                        |
| ( <i>Leonard Medical, Raleigh, N. C.</i> ), |                        |
| 1894,                                       | <i>Cameron, Texas.</i> |

|  |                             |
|--|-----------------------------|
| Dickinson, Joshua Clifton,   | <i>Bellefontaine, O.</i>    |
| Doane, George Harvey,  | <i>Aurora.</i>              |
| Drunzer, Sophia Carolina,  | <i>Chicago.</i>             |
| Fonger, James Hoppin, M.D., ( <i>Medical<br/>Dep't, Hamline Univ.</i> ), 1900, | <i>Gary, S. Dak.</i>        |
| Gindele, George William,   | <i>Chicago.</i>             |
| Howard, Wayne Cox, M.D., ( <i>Meharry<br/>Medical Coll.</i> ), 1905,           | <i>Ebenezer, Miss.</i>      |
| Howe, Hariette Amanda, M.D.,<br>( <i>Woman's Medical Coll.</i> ), 1888,        | <i>Chicago.</i>             |
| Hughes, Joseph Walter,   | <i>Chicago.</i>             |
| Mac Donald, Alexander W.,  | <i>Chicago.</i>             |
| Murphy, Elam Turner, A.M., ( <i>Univ.<br/>of Indianapolis</i> ), 1901,         | <i>Crawfordsville, Ind.</i> |
| O'Keefe, Arthur James,   | <i>Chicago.</i>             |
| Quinn, Edmund Lennon,  | <i>Chicago.</i>             |
| Schneider, George Alexander,   | <i>Chicago.</i>             |

## COLLEGE OF DENTISTRY

## SENIORS

|                             |                           |
|-----------------------------|---------------------------|
| Bloomenstiel, Mose Frank,   | <i>Baton Rouge, La.</i>   |
| Brady, Elizabeth Neil,      | <i>Chicago.</i>           |
| Bronstein, Benjamin Joseph, | <i>Chicago.</i>           |
| Clinite, Floyd Ellis,       | <i>Rochelle.</i>          |
| Coleman, Guy Thomas,        | <i>Chicago.</i>           |
| Cree, Charles Garfield,     | <i>Flora, Ind.</i>        |
| Danforth, Earl Hartland,    | <i>Brooklyn, N. Y.</i>    |
| Desser, Louis Bernard,      | <i>Chicago.</i>           |
| Dyblie, John Helmer,        | <i>Joliet.</i>            |
| Ertel, Herman Henry,        | <i>Chicago.</i>           |
| Frank, Arthur Jacob,        | <i>Fulton, Ia.</i>        |
| Frey, Joseph Clark,         | <i>Chicago.</i>           |
| Gill, Walter William,       | <i>Corning, Ia.</i>       |
| Harris, Aaron Bloom,        | <i>Chicago.</i>           |
| Helmick, Otto W.,           | <i>Belleflower.</i>       |
| Holden, Walter Horace,      | <i>Chicago.</i>           |
| Jent, James Abram,          | <i>Marion.</i>            |
| Kerrigan, Joseph John,      | <i>Chicago.</i>           |
| Kostowski, John,            | <i>Chicago.</i>           |
| Krone, Otto August,         | <i>Minneapolis, Minn.</i> |

Landon, Orrin Fredric,  
 Lotreck, Frank,  
 Marquis, Robert Lyle,  
 Marsh, Clark Willard,  
 Mason, Clarence Joseph,  
 Mauerman, Hugo Christopher,  
 Meek, Clarence B.,  
 Miller, Louis,  
 Mortenson, John Ole,  
 Mundell, Ralph Rogers,  
 Nelson, Theodore Martin,  
 Plummer, Joseph Henry,  
 Preusker, Gustof Alvin,  
 Reid, William A.,  
 Rockfellow, John Albert,  
 Rogers, William Joseph,  
 Sepple, Charles V.,  
 Shaffer, Walter Henry,  
 Simmons, Everett Lee,  
 Stocker, Carl George,  
 Stoner, Wilfred M.,  
 Taylor, Elmer Eugene,  
 Thompson, William,  
 Tym, William Bradford,  
 Vita, Valerian Julian,  
 Walker, Thomas Raymond,  
 Waterman, Glen Burrows,  
 Wimmer, Wallace Alexander,  
 Worthington, Chester Allen,  
 Worthington, Samuel Lester,  
 Wright, James Alexander,

*Remington, Ind.*  
*Austerlitz, Germany.*  
*Chicago.*  
*Topeka, Kas.*  
*Newell, Ia.*  
*Chicago.*  
*Kewancee.*  
*Chicago.*  
*Chicago.*  
*Peoria.*  
*Oak Park.*  
*Memphis, Tenn.*  
*Chicago.*  
*Mitchell, S, Dak.*  
*Seattle, Wash.*  
*Alexis.*  
*Chicago.*  
*Prairie View.*  
*Chicago.*  
*Newell, Ia.*  
*Chicago.*  
*Chicago.*  
*Chicago.*  
*Bethany.*  
*Fairbault, Minn.*  
*Chicago.*  
*Newell, Ia.*  
*Chicago.*  
*Indianola.*  
*Indianola.*  
*Chicago.*

#### JUNIORS

Ashworth, Thomas Aloysius,  
 Becker, Walter Edward,  
 Chulock, A. W.,  
 Clark, Ezra T.,  
 Cleveland, Carleton,  
 Cronk, Benjamin Bicknell,  
 DeMay, Rollo Oscar,  
 Dierks, William John,

*Chicago.*  
*Tampico.*  
*Chicago.*  
*Farmington, Utah.*  
*Chicago.*  
*Belvidere.*  
*Danbury, Neb.*  
*Toledo, O.*

|                             |                           |
|-----------------------------|---------------------------|
| Driver, Ralph Burt,         | <i>Minneapolis, Minn.</i> |
| Dunn, Joseph Atwood,        | <i>Piper City.</i>        |
| Fels, Leo J.,               | <i>Chicago.</i>           |
| Foley, Clarence L.,         | <i>Rockford.</i>          |
| Frankel, David A.,          | <i>Chicago.</i>           |
| Frey, Henry,                | <i>Chicago.</i>           |
| Halperin, Abraham N.,       | <i>Chicago.</i>           |
| Hoover, Thomas E.,          | <i>Tolono.</i>            |
| Jacobs, Joseph E.,          | <i>Burlington, Wis.</i>   |
| Kingsley, A.C.,             | <i>Chicago.</i>           |
| Kubitz, Harvey Hugo,        | <i>Oak Park.</i>          |
| Lasker, Maurice,            | <i>Chicago.</i>           |
| Levin, Samuel A.,           | <i>Chicago.</i>           |
| Lockwood, Bradley Franklin, | <i>Gannvalley, S. D.</i>  |
| Lyons, George Ernest,       | <i>Corning, Ia.</i>       |
| McCarthy, Thomas James,     | <i>Chicago.</i>           |
| McCreight, James Steele,    | <i>Aledo.</i>             |
| Marquis, Maynard Maine,     | <i>Buffalo Prairie.</i>   |
| Murphy, Lawrence Bernard,   | <i>Bear Lake, Mich.</i>   |
| Nowacke, Walergan Wacklaw,  | <i>Chicago.</i>           |
| Phifer, LeRoy Henry,        | <i>Shumway.</i>           |
| Shere, Alexander A.,        | <i>Chicago.</i>           |
| Singer, Samuel J.,          | <i>Chicago.</i>           |
| Spangler, Henry Thomas,     | <i>Plainfield.</i>        |
| Thomson, Johanne C.,        | <i>Dannebrog, Neb.</i>    |
| Vorwerk, Frederick William, | <i>Chicago.</i>           |
| Wheeler, George William,    | <i>Belleflower.</i>       |
| Zimonth, Anton John,        | <i>Chicago.</i>           |

## FRESHMEN

|                                |                           |
|--------------------------------|---------------------------|
| Armstrong, Neil H.,            | <i>Urbana.</i>            |
| Bandelin, Carl Frederick,      | <i>Grand Rapids, Wis.</i> |
| Bernard, Frank Joseph,         | <i>Galena.</i>            |
| Budworth, Clyde Alvin,         | <i>Cassville, Wis.</i>    |
| Burke, William Theodore Burke, | <i>Ishpeming, Mich.</i>   |
| Burkholder, Charles A.,        | <i>Chicago.</i>           |
| Butler, Thomas Edward,         | <i>Wellington, N. Z.</i>  |
| Clair, Anna,                   | <i>Chicago.</i>           |
| Daye, Chester Walter,          | <i>Westfield, Wis.</i>    |
| Ebert, Frederick Edward,       | <i>Champaign.</i>         |
| Ehrlich, George Theodore,      | <i>Ft. Pierce, Fla.</i>   |

|                            |                                |
|----------------------------|--------------------------------|
| Farrier, James Jones,      | <i>Dally Springs, Tex.</i>     |
| Feldsher, Noah,            | <i>Chicago.</i>                |
| Fried, M. E.,              | <i>Chicago.</i>                |
| Friedman, Samuel,          | <i>Chicago.</i>                |
| Goglinski, Walter Eugene,  | <i>Chicago.</i>                |
| Gorman, Joseph Sabas,      | <i>Chicago.</i>                |
| Gwyne, James Stewart,      | <i>Chicago.</i>                |
| Habel, Arthur,             | <i>Chicago.</i>                |
| Haley, Quintus Edward,     | <i>Vicksburg, Miss.</i>        |
| Hemingway, Charles V.,     | <i>Chicago.</i>                |
| von der Heydt, Harry Karl, | <i>Chicago.</i>                |
| Hopkins, Hugh,             | <i>Chicago.</i>                |
| Hough, Michael Francis,    | <i>Chicago.</i>                |
| Ivins, Merle W.,           | <i>Ft. Wayne, Ind.</i>         |
| Jones, Harry Lysander,     | <i>Chicago.</i>                |
| Joyce, Francis Leroy,      | <i>Waterloo, Wis.</i>          |
| Jozwiak, Joseph Anthony,   | <i>Opechee, Mich.</i>          |
| Kaufman, Henry Joseph,     | <i>Freeman, S. D.</i>          |
| Kerr, Morris Meyer,        | <i>Chicago.</i>                |
| Kettles, Charles H.,       | <i>Joliet.</i>                 |
| Klumb, Edward Fred,        | <i>Milwaukee, Wis.</i>         |
| Korshak, Harry M.,         | <i>Chicago.</i>                |
| Larsen, James Andrew,      | <i>Chicago.</i>                |
| Mickelson, William Rasmus, | <i>Parowan, Utah.</i>          |
| Mitchell, Walter Theron,   | <i>Macon, Ga.</i>              |
| Morgan, Roscoe C.,         | <i>Bruce, S. D.</i>            |
| Newman, Louis,             | <i>Chicago.</i>                |
| Ponce, Francisco,          | <i>Balinag, Bulacan, P. I.</i> |
| Pontius, Melvin E.,        | <i>Scotland, S. D.</i>         |
| Porterfield, Jay O.,       | <i>Tracr, Ia.</i>              |
| Ramsey, Paul H.,           | <i>Aledo.</i>                  |
| Reichenberger, Edmund,     | <i>Chicago.</i>                |
| Rotzoll, Albert,           | <i>Chicago.</i>                |
| Saboroff, Simon,           | <i>Chicago.</i>                |
| Schaffner, Herman H.,      | <i>Chicago.</i>                |
| Silverberg, Harry Lawford, | <i>Chicago.</i>                |
| Stahl, William E.,         | <i>Chicago.</i>                |
| Stone, Reuben Alexius,     | <i>North Branch, Minn.</i>     |
| Stoughton, Elmer B.,       | <i>Geddes, S. D.</i>           |
| Sulluway, Israel,          | <i>Chicago.</i>                |
| Swatek, Edwin Paul,        | <i>Chicago.</i>                |

|                        |                      |
|------------------------|----------------------|
| Thompson, C. H.,       | <i>Chicago.</i>      |
| Warner, Clyde Herbert, | <i>Chicago.</i>      |
| Warner, Maude Myrtle,  | <i>Chicago.</i>      |
| Wilcox, Henry Lyman,   | <i>Rochelle.</i>     |
| Young, Otis,           | <i>Everest, Kas.</i> |

## SCHOOL OF PHARMACY

## SENIORS

|                               |                         |
|-------------------------------|-------------------------|
| Ackerman, Albert George Carl, | <i>Quincy.</i>          |
| Alfaro, Emilio,               | <i>Barros, P. R.</i>    |
| Anderson, Walter Edward,      | <i>Kasson, Minn.</i>    |
| Arentz, Sigmar Edward,        | <i>Chicago.</i>         |
| Arnold, Ethelyn Belle,        | <i>Watseka.</i>         |
| Beckett, Allen,               | <i>Chicago.</i>         |
| Bourne, Earle,                | <i>Lewis, Ind.</i>      |
| Bucklin, Frank Emery,         | <i>Chicago.</i>         |
| Carlson, Henry Godfrey,       | <i>Moline.</i>          |
| Crawford, Frank Alexander,    | <i>Herscher.</i>        |
| Cropp, Daniel Tappington,     | <i>Chicago.</i>         |
| Dale, Gustav Garfield,        | <i>Chicago.</i>         |
| Eberly, Ralph Milton,         | <i>Aurora.</i>          |
| Fox, Leonard Berry,           | <i>Chicago.</i>         |
| Fry, Narys George,            | <i>Chicago.</i>         |
| Gauthier, Charles Desire,     | <i>Green Bay, Wis.</i>  |
| Grebel, Ernest Elmer,         | <i>Beaver Dam, Wis.</i> |
| Green, Shade Winfield,        | <i>Athens, Texas.</i>   |
| Grimes, Wilbur,               | <i>Clinton.</i>         |
| Haeseler, Loren Milton,       | <i>Lisbon, Ia.</i>      |
| Haffner, George Fred,         | <i>Farmer City.</i>     |
| Hisgen, Fred Joseph,          | <i>Chicago.</i>         |
| Hoffman, Carl Edward,         | <i>Plymouth, Wis.</i>   |
| Holland, David Lewis,         | <i>Chicago.</i>         |
| Hollnagel, Henry Arnold,      | <i>Chicago.</i>         |
| Jacobs, Louis Goodman,        | <i>Chicago.</i>         |
| Knoblock, Delbert Gustav,     | <i>South Bend, Ind.</i> |
| Krueger, Frank Fred,          | <i>Seymour, Ind.</i>    |
| Krueger, Henry John,          | <i>Chicago.</i>         |
| Laack, Julius Augustus,       | <i>Sheboygan, Wis.</i>  |
| Laatz, John Ernest,           | <i>Chicago.</i>         |
| McCaslin, Hugh,               | <i>Nokomis.</i>         |

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|---------------------------------|------------------------------|
| McDow, Charles Graciano,        | <i>C. Juarez, Mexico.</i>    |
| Machenheimer, Don Grover,       | <i>Carmi.</i>                |
| Mayhew, Walter Simonds,         | <i>Kasson, Minn.</i>         |
| Meixner, Fred Morris Frankfort, | <i>Chillicothe.</i>          |
| Mrazek, Rudolph George,         | <i>Chicago.</i>              |
| Murray, Walter Allen,           | <i>Traverse City, Mich..</i> |
| Nekola, Joseph Julius,          | <i>Chicago:</i>              |
| Palmer, George Dwight,          | <i>Joliet.</i>               |
| Price, Walter Carlyle,          | <i>Vienna.</i>               |
| Reite, Rolf,                    | <i>Cooperstown, N. D.</i>    |
| Robinson, John William,         | <i>Peru.</i>                 |
| Rund, Bohumil,                  | <i>Chicago.</i>              |
| Schupmann, Martin,              | <i>Chicago.</i>              |
| Seifried, George William,       | <i>Chicago.</i>              |
| Seyfert, Paul,                  | <i>Thiensville, Wis.</i>     |
| Shatzkis, Otto,                 | <i>Chicago.</i>              |
| De Stefano, Edward,             | <i>Chicago.</i>              |
| St. Martin, Theresa,            | <i>Wahoo, Neb.</i>           |
| Taylor, Luther Lee,             | <i>Havana.</i>               |
| Thorpe, Ralph Wayne,            | <i>Wapella.</i>              |
| Tilton, Claude Enoch,           | <i>Fairmount.</i>            |
| White, George Edwin,            | <i>Chicago.</i>              |
| Wiltgen, John Peter,            | <i>Chicago.</i>              |
| Zukowski, John Leon,            | <i>Chicago.</i>              |

### JUNIORS

|                            |                        |
|----------------------------|------------------------|
| Anderson, Karl Elliott,    | <i>Menomonie, Wis.</i> |
| Arnold, Thomas Jefferson,  | <i>Mt. Carmel.</i>     |
| Bakkers, Andrew,           | <i>Chicago.</i>        |
| Barron, Arthur Franklin,   | <i>Dixon.</i>          |
| Beaman, Grover Berton,     | <i>Shelbyville.</i>    |
| Behrensmeier, Ernst Henry, | <i>Quincy.</i>         |
| Berend, Jack Wallace,      | <i>Chicago.</i>        |
| Beyermann, William John,   | <i>Chicago.</i>        |
| Bickford, Mark Dean,       | <i>Sterling.</i>       |
| Biggs, Edwin Thomas,       | <i>Waverly, Ky.</i>    |
| Blahnik, Karel Bartholmae, | <i>Chicago.</i>        |
| Blake, Frank Edmund,       | <i>Watseka.</i>        |
| Boyd, Thomas Jackson,      | <i>Effingham.</i>      |
| Boyer, Alden Scott,        | <i>Cresco, Ia.</i>     |
| Buerkett, Fred Noah,       | <i>Springfield.</i>    |

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|---------------------------------|---------------------------|
| Bunch, Floyd Falconer,          | <i>Clifton Forge, Va.</i> |
| Busch, Emanuel,                 | <i>Chicago.</i>           |
| Carlson, Carl Gustave,          | <i>Ludington. Mich.</i>   |
| Carlyle, Frank Wallet,          | <i>Bellflower.</i>        |
| Cassin, Elmer Eldorado,         | <i>Ogden, Utah.</i>       |
| Christiansen, Christian August, | <i>Chicago.</i>           |
| Christmann, Joseph Herman,      | <i>Chicago.</i>           |
| Cooke, Layton Williard,         | <i>Chicago.</i>           |
| Czeslawski, Felix Alexander,    | <i>Chicago.</i>           |
| Deeter, Lawrence Edgar,         | <i>Dixon.</i>             |
| Denson, Wayne Crawford,         | <i>Minonk.</i>            |
| Doggett, James Lesley,          | <i>Monroeville, Ind.</i>  |
| Dunstan, Ellsworth John,        | <i>Chicago.</i>           |
| Eddy, John,                     | <i>Detroit, Mich.</i>     |
| Ellsworth, Dee Earle,           | <i>Chicago.</i>           |
| Falk, Herman William,           | <i>Chicago.</i>           |
| Ferguson, William Allen,        | <i>Minooka.</i>           |
| Flucke, Herman William Richard, | <i>Chicago.</i>           |
| Furman, Tisdale Eddie Perry,    | <i>Chicago.</i>           |
| Gardner, Sidney Warren,         | <i>Columbus, Miss.</i>    |
| Goldstandt, Walter Asher,       | <i>Wamego, Kas.</i>       |
| Goodman, Jacob,                 | <i>Chicago.</i>           |
| Griest, Homer Leslie,           | <i>Milford.</i>           |
| Hayes, Walter David,            | <i>Bloomington.</i>       |
| von Hermann, Edward,            | <i>Chicago.</i>           |
| Herbster, Albert Logan,         | <i>Ottawa.</i>            |
| Hertneck, Fred, Jr.,            | <i>Chicago.</i>           |
| Holtz, Edwin,                   | <i>Kankakee.</i>          |
| Huston, Lotis Loma,             | <i>Maquoketa, Ia.</i>     |
| Jackson, Booker Leon,           | <i>Kewance.</i>           |
| Jaworski, Edmund William,       | <i>Chicago.</i>           |
| Johl, Walter,                   | <i>Chicago.</i>           |
| Johnston, Howell,               | <i>Charleston.</i>        |
| Johnston, John Lynch,           | <i>Chicago.</i>           |
| Jusajtus, Bernard Felix,        | <i>Chicago.</i>           |
| Kingery, Charles Fremont,       | <i>Mendota.</i>           |
| Knick, George Ferdinand,        | <i>Brownston, Minn.</i>   |
| Kopczynski, Leo Peter,          | <i>Chicago.</i>           |
| Krampff, Hermann Robert,        | <i>Havana.</i>            |
| Krebs, Eugene August,           | <i>Chicago.</i>           |
| Krzemieniewski, John Joseph,    | <i>Chicago.</i>           |

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| Langheim, George Julius,   | <i>Charlotte, Ia.</i>     |
| Lee, John Peter,   | <i>Chicago.</i>           |
| Lindley, Ira Willard,  | <i>Central City, Ncb.</i> |
| Lorenz, Otto John,   | <i>Chicago.</i>           |
| Lydon, Louis Henry,  | <i>Chicago.</i>           |
| Martin Paul Owen,  | <i>Effingham.</i>         |
| May, George Clark,   | <i>Princeton, Ind.</i>    |
| McCabe, Frank John,  | <i>Chicago.</i>           |
| McKeon, Mathew John,   | <i>Chicago.</i>           |
| McNair, Hugh,  | <i>Mt. Carmel.</i>        |
| Mendelssohn, Max,  | <i>Chicago.</i>           |
| Meyer, Heinrich Bernhard August,                                     | <i>Chicago.</i>           |
| Meyer, William,  | <i>Peoria.</i>            |
| Miles, Eugene Lester,  | <i>Chicago.</i>           |
| Miles, Jesse Earle,  | <i>Waldon.</i>            |
| Morrison, William Lloyd,   | <i>Paxton.</i>            |
| Nelson, Arthur James,  | <i>Burlington, Ia.</i>    |
| Nelson, Frank Willis,  | <i>Lake Villa.</i>        |
| Obermann, Abraham Max,   | <i>Chicago.</i>           |
| Pavlicek, Bohumil Joe,   | <i>Chicago.</i>           |
| Pfaff, Henry, Jr.,   | <i>Chicago.</i>           |
| Protrowski, John Alexander,  | <i>Chicago.</i>           |
| Plummer, Andrew Vern,  | <i>Fennville, Mich.</i>   |
| Polk, John Knox,   | <i>Versailles, Ky.</i>    |
| Preston, George Loy  | <i>Gibson City.</i>       |
| Propp, Charles,  | <i>Kouts, Ind.</i>        |
| Rathowski, Frank,  | <i>Chicago.</i>           |
| Reisman, Bertha,   | <i>Chicago.</i>           |
| Reuter, Walter Henry,  | <i>Union, Ore.</i>        |
| Richards, Arthur E.,   | <i>Wyanet.</i>            |
| Rotter, Leo Richard,   | <i>Quincy.</i>            |
| Ruicker, Frederick Henry,  | <i>Chicago.</i>           |
| Ryan, Roger,   | <i>Chicago.</i>           |
| Scheiner, Charles James,   | <i>Chicago.</i>           |
| Scheiner, Otto, D.D.S., ( <i>Chicago Den-<br/>tal Coll.</i> ), 1903, | <i>Chicago.</i>           |
| Schimelfenig, Clarence,  | <i>Chicago.</i>           |
| Schinz, Fred Emil,   | <i>La Salle.</i>          |
| Schmidt, Carl William,   | <i>St. Louis, Mich.</i>   |
| Schmitt, Joseph Jacob,   | <i>Chicago.</i>           |
| Schneider, Carl Henry,   | <i>Galesburg.</i>         |

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|--------------------------------|----------------------------|
| Schulze, William Charles,      | <i>Racine, Wis.</i>        |
| Schumm, Edwin Theodore,        | <i>La Porte, Ind.</i>      |
| Secord, George Louis,          | <i>Chicago.</i>            |
| Soucek, Edward James,          | <i>Chicago.</i>            |
| Springer, Walter Edwin,        | <i>Elgin.</i>              |
| Stock, Walter John,            | <i>Chicago.</i>            |
| Sutton, R. H.,                 | <i>Montpelier, Idaho.</i>  |
| Thomson, George,               | <i>Fort Collins, Colo.</i> |
| Vovesny, Louis Joseph,         | <i>Chicago.</i>            |
| Wach, Edward Charles,          | <i>Chicago.</i>            |
| Walta, Frank Stanley,          | <i>Chicago.</i>            |
| Webster, Stanley Ballenger,    | <i>Winslow.</i>            |
| Wieschendorff, William Edward, | <i>Los Angeles, Cal.</i>   |
| Williamson, Wyley Porter,      | <i>Marietta, Ohio.</i>     |
| Wiltgen, Joseph John,          | <i>Chicago.</i>            |
| Wirtz, John Adam,              | <i>Princeton, Ind.</i>     |
| Wolinsky, Benjamin,            | <i>Chicago.</i>            |
| Yundt, Charles Ray,            | <i>Mulberry, Ind.</i>      |
| Zaleski, Rufus, Edward Gary,   | <i>Chicago.</i>            |
| Zidek, Rudolph Joseph,         | <i>Chicago.</i>            |

## SPECIAL STUDENT

Johnson, Philip Charles, Ph.G., (*Univ.  
of Illinois*), 1904, *Chicago.*

## ACADEMY

|                         |                          |
|-------------------------|--------------------------|
| Abbott, Alfred Nalle,   | <i>Saltillo, Mexico.</i> |
| Abbott, Bayard Taylor,  | <i>Morrison.</i>         |
| Altekruse, Ira Blair,   | <i>Muscatine, Ia.</i>    |
| Ammerman, Howard,       | <i>Urbana.</i>           |
| Anderson, Irving,       | <i>Galesburg.</i>        |
| Anderson, Lewis Holmes, | <i>Buda.</i>             |
| Bach, Beulah,           | <i>Urbana.</i>           |
| Bacon, Bruce,           | <i>Peoria.</i>           |
| Ball, Jay Hamilton,     | <i>Toluca.</i>           |
| Barbour, Waldo Emerson, | <i>Springfield.</i>      |
| Barr, Clyde Munhall,    | <i>Braidwood.</i>        |
| Bashen, George Bergen,  | <i>Bowen.</i>            |
| Bateman, Joel Thomas,   | <i>Elburn.</i>           |
| Baum, Floyd William,    | <i>Urbana.</i>           |

|                             |                            |
|-----------------------------|----------------------------|
| Baum, Mark Winchester,      | <i>Urbana.</i>             |
| Beckwith, James Lafayette,  | <i>Chicago.</i>            |
| Bloomfield, Matt,           | <i>Toledo.</i>             |
| Borton, Gail Leslie,        | <i>Deland.</i>             |
| Bradley, William Horace,    | <i>White Heath.</i>        |
| Bramhall, Arthur Eugene,    | <i>Michigan City, Ind.</i> |
| Brooks, Clara Mabel,        | <i>Champaign.</i>          |
| Brown, George Gus,          | <i>Danville.</i>           |
| Brown, Ina Indus,           | <i>Lyons, Ind.</i>         |
| Buerkin, Edwin,             | <i>Quincy.</i>             |
| Bullock, Edwin Corliss,     | <i>Carbondale.</i>         |
| Butzer, Clarence David,     | <i>Hillsdale.</i>          |
| Buzick, John,               | <i>Champaign.</i>          |
| Cain, Patrick Clement,      | <i>Wyoming.</i>            |
| Campbell, Loretta Beatrice, | <i>Champaign.</i>          |
| Carlson, Charles Algot,     | <i>Champaign.</i>          |
| Cary, Clifton Guy,          | <i>Elburn.</i>             |
| Cawood, Hervey Richey,      | <i>Palestine.</i>          |
| Chickering, George Abbott,  | <i>Oquawka.</i>            |
| Churchill, Leland Aurelius, | <i>Shelbyville, Ind.</i>   |
| Clark, Meribah Eliza,       | <i>Mt. Sterling.</i>       |
| Clermont, Arthur Harvey,    | <i>Aurora.</i>             |
| Cline, George Howard,       | <i>Champaign.</i>          |
| Cohen, Julius Bernstein,    | <i>Urbana.</i>             |
| Colerick, Ernest Harold,    | <i>Harvey.</i>             |
| Conant, William Alvin,      | <i>Champaign.</i>          |
| Condit, Roy Willoughby,     | <i>Urbana.</i>             |
| Conner, Frances Pearl,      | <i>Holden, Mo.</i>         |
| Conrad, Alma Bertha,        | <i>Altamont.</i>           |
| Cook, Ellis,                | <i>Roberts.</i>            |
| Cope, Charles Elmer,        | <i>Olney.</i>              |
| Cowan, Phelps,              | <i>Joliet.</i>             |
| Crain, Chester McElfresh,   | <i>Urbana.</i>             |
| Crawford, Harlan,           | <i>Urbana.</i>             |
| Cross, Wallace Jackson,     | <i>Campbell Hill.</i>      |
| Danielson, Willis Chester,  | <i>Leland.</i>             |
| Davis, Floyd William,       | <i>Patoka.</i>             |
| Day, Warren William,        | <i>Peoria.</i>             |
| Dearduff, Frank,            | <i>Ficklin.</i>            |
| Depke, Edward Charles,      | <i>Danville.</i>           |
| Depke, George Austen,       | <i>Danville.</i>           |

Dernbach, William Adam,  
Devinna, Lawrence Estill,  
Dillon, Edward Leland,  
Dole, Ira Burton,  
Donahue, William Joseph,  
Downs, Orrie Hagar,  
Drake, Edwin Louis,  
Drake, Pauline Hortense,  
Drew, Elva,  
Drury, Jean Paul,  
Dunlap, Nora Betz,  
Dysart, Howard Lee,  
Early, Joseph Eunice,  
Epler, Alva Edward,  
Fairbanks, Roland William,  
Fairchild, Raymond Wilber,  
Faught, Donald Davidson,  
Faught, Gail,  
Ferguson, Irwin Glenn,  
Fielding, Lewis James,  
Fitzwater, Daisy Rebecca,  
Flanders, Harry Taylor,  
Foran, Patrick,  
Fowler, Finley Morton,  
Fryer, Paul,  
Fryer, Edna Fern,  
Gallaher, Bessie Estella,  
Gallardo, Marcelino Mendoza,  
Geuther, Otto Robert,  
Goodenough, Arthur Sherman,  
Graham, John David,  
Green, Bertie,  
Green, James Glen,  
Gregory, Alta Beatrice,  
Griffith, Ambrose,  
Griffiths, Walter Milo,  
Grimes, Roy L,  
Groener, Emil Carl,  
Grogan, Xystus Thomas,  
Grosh, Anna,  
Guynn, Clarence Edward,

*Chicago.*  
*Versailles, Mo.*  
*Urbana.*  
*Manteno.*  
*Cullom.*  
*Downs.*  
*Urbana.*  
*Urbana.*  
*Atwood.*  
*Altamont.*  
*Champaign.*  
*Granville.*  
*Butte, Mont.*  
*Keensburg.*  
*Bradford.*  
*Homer.*  
*Altamont.*  
*Altamont.*  
*Urbana.*  
*Boswell, Ind.*  
*Champaign.*  
*Noble.*  
*Granville.*  
*Urbana.*  
*San Jose.*  
*San Jose.*  
*Homer.*  
*San Isidro, Nueva Ecija, P. I.*  
*Mokena.*  
*Urbana.*  
*Illioopolis.*  
*Ivesdale.*  
*Hindsboro.*  
*Moweaqua.*  
*Elburn.*  
*Pontoosuc.*  
*Urbana.*  
*Batavia.*  
*Freeland Park, Ind.*  
*Mendon.*  
*Thomasboro.*

|                                 |                             |
|---------------------------------|-----------------------------|
| Hall, Robert,                   | <i>Homer.</i>               |
| Hall, Mattie Adaline,           | <i>Charleston.</i>          |
| Hannagan, Arthur James,         | <i>Urbana.</i>              |
| Harmon, Elmer Joseph,           | <i>Ellsworth, Ia.</i>       |
| Harnsberger, Edward S.,         | <i>Champaign.</i>           |
| Harris, Ralph Maurell,          | <i>Champaign.</i>           |
| Haskett, Paul Edmund,           | <i>Baxter Springs, Kas.</i> |
| Hastings, Teema,                | <i>Urbana.</i>              |
| Hays, James Burton,             | <i>Urbana.</i>              |
| Heard, Oscar Edwin, Jr.,        | <i>Freeport.</i>            |
| Henry, Franklin Hurley,         | <i>Canton.</i>              |
| Hicks, Rees Gaddis,             | <i>Colfax.</i>              |
| Hopkins, Harry Ward,            | <i>Homer.</i>               |
| Horner, Harry Sterling,         | <i>Rockford.</i>            |
| Howser, Esta,                   | <i>Urbana.</i>              |
| Howser, Laura Bertram,          | <i>Urbana.</i>              |
| Huffaker, Wellington Van Buren, | <i>New Berlin.</i>          |
| Hughes, Alexander Gibson,       | <i>Fitzgerald, Ga.</i>      |
| Huntley, Oscar Hubbard,         | <i>Buda.</i>                |
| Hussey, Alfred Thompson,        | <i>Williamsville.</i>       |
| Hunt, Edenia,                   | <i>Urbana.</i>              |
| Hunter, Alfred Hughlyn,         | <i>Camp Point.</i>          |
| Ide, Albert Denver,             | <i>Springfield.</i>         |
| James, Helen Dickson,           | <i>Urbana.</i>              |
| James, Mary,                    | <i>Findlay.</i>             |
| Jeffris, Roscoe C,              | <i>Charleston.</i>          |
| Jenkins, Edwin Milton,          | <i>Vermont.</i>             |
| Johanning, Nora Bertha,         | <i>Champaign.</i>           |
| Johnson, Anna Charlotte,        | <i>Ransom.</i>              |
| Johnson, Ethel Muriel,          | <i>Urbana.</i>              |
| Jones, Karl Jesse,              | <i>Dervey.</i>              |
| Jones, Raymond,                 | <i>St. Joseph.</i>          |
| Jones, Madge Dorothy,           | <i>Urbana.</i>              |
| Julian, Lambert Paul,           | <i>Chicago.</i>             |
| Kartowicz, Frank George,        | <i>Chicago.</i>             |
| Kazda, James,                   | <i>Chicago.</i>             |
| Kelley, Caryl,                  | <i>Urbana.</i>              |
| Kennedy, Clayton Franklin,      | <i>Elgin.</i>               |
| Kilbury, Frederick Earle,       | <i>St. Joseph.</i>          |
| King, Eva Gertrude,             | <i>Falmouth, Ky.</i>        |
| Kingsolver, Frank Leroy,        | <i>Mattoon.</i>             |

Kunmer, Ludwig,  
Lake, Donna Irene,  
Latta, Smith Harrison,  
Lautz, Benjamin Harrison,  
Lehman, Ruel Forrest,  
Leonard, Henry Phillip,  
Le Sure, Charles Samuel,  
Loose, Speed Butler,  
Lucas, William Edward,  
McClain, Dayle C,  
McCormick, James,  
McDowell, Ishmael,  
McIntosh, James William,  
McKinney, Roy Harrison,  
Maffioli, Frank,  
Markey, James Lawrence,  
Marsh, Daniel,  
Maryatt, Elmer Fauntelroy,  
Mathews, Leo,  
Mathewson, James Otis,  
Mathias, Victor Alvin,  
Mautz, Charles Bail,  
Meharry, Paul Francis,  
Merry, Elda Maude,  
Mershon, Noble Carlisle,  
Miller, Paul,  
Miller, Bert Andrew,  
Miller, Levi Wesley,  
Miller, Samuel Leslie,  
Mitchell, Harmon Howard,  
Mitchell, Sam,  
Mitchell, William,  
Moody, Brilla Jeannette,  
Moore, Roscoe Walmsley,  
Morrill, William,  
Morrison, Paul,  
Morrison, Homer Fred, Jr.,  
Morton, Levi Parson,  
Moser, Lee Elwood,  
Mullin, Ada Inez,  
Murfin, Arthur Lee,

*Chicago.*  
*Fancy Prairic.*  
*Oak Park.*  
*Normal.*  
*Sidncy.*  
*Alexis.*  
*Olney.*  
*Springfield.*  
*Urbana.*  
*Urbana.*  
*Perry, Ia.*  
*Centralia.*  
*Danville.*  
*Gifford.*  
*Rockford.*  
*Chicago.*  
*Weldon.*  
*New Plymouth, Idaho.*  
*Champaign.*  
*Malta.*  
*Champaign.*  
*Watson.*  
*Tolono.*  
*Urbana.*  
*Mt. Carroll.*  
*Urbana.*  
*Forrest.*  
*Urbana.*  
*Timexwell.*  
*Sidney.*  
*Charleston.*  
*Ursa.*  
*Dalton City.*  
*Ficklin.*  
*Elburn.*  
*St. Joseph.*  
*Ramsey.*  
*Urbana.*  
*Sigel.*  
*Seymour.*  
*Vernon.*

Murfin, Walter Dean,  
 Musser, Frank Stanley,  
 Naught, Adaline Elizabeth,  
 Norman, Elisha Powell,  
 Nourse, Fred Melvin,  
 Oliver, Fred Hartman,  
 Opperman, Henry Frederick,  
 Owen, George,  
 Owen, Vinnie,  
 Paeth, William John,  
 Parker, Barton,  
 Parr, Elizabeth,  
 Pegram, William Alexander,  
 Perce, Earle Houts,  
 Perez, Carlos,  
 Perkins, Albert Monroe,  
 Perry, Victor E,  
 Perry, Merritt Sawyer,  
 Phares, Mary Josephine,  
 Phillippe, Jay Simpson,  
 Phillips, Wilson Alexander,  
 Pinney, George William,  
 Poe, Fred Madison,  
 Poole, Lawrence Clifford,  
 Poorman, Paul Wamsley,  
 Popp, Paul Fred,  
 Porterfield, Arthur Tucker,  
 Powers, Fred Bernarr,  
 Pruitt, Glenn James,  
 Putnam, William James,  
 Railsback, Howard Marion,  
 Reasoner, Richard Barkley,  
 Reeves, Howell H,  
 Rich, Roy,  
 Richardson, Alonzo Benjamin,  
 Robinson, Benjamin Franklin,  
 Robinson, Florence Eleanor,  
 Robinson, Samuel Newton,  
 Robison, Don,  
 Rook, Charles Wesley,  
 Ross, Joseph Benjamin,

*Patoka.*  
*Lena.*  
*Layton.*  
*Tamalco.*  
*Chicago.*  
*Clinton.*  
*Culver.*  
*Carterville.*  
*Carterville.*  
*Naperville.*  
*Monmouth.*  
*Urbana.*  
*Lincoln.*  
*Williamsville.*  
*Saltillo, Mexico.*  
*Champaign.*  
*Urbana.*  
*Pearson, Wash.*  
*St. Joseph.*  
*Champaign.*  
*Urbana.*  
*La Place.*  
*Sidney.*  
*Moline.*  
*Humboldt.*  
*Chicago.*  
*Sidney.*  
*Lawton, Okla.*  
*Urbana.*  
*Pana.*  
*Hopedale.*  
*Colorado Springs, Colo.*  
*Champaign.*  
*Springfield.*  
*Amboy.*  
*Urbana.*  
*Urbana.*  
*Peoria.*  
*Pekin.*  
*Bowen.*  
*Canton.*

Ross, Julian Jerome,  
Rowden, William Clarence,  
Sale, Dwight,  
Santos, Gervasio,  
Schiaaf, Kenneth,  
Schaefer, Edwin Morton,  
Schlonitzky, Isadore,  
Schmiedwind, John Charles,  
Scholes, Walter,  
Searle, Jessie Emma,  
Seymour, Robert Ross,  
Shaynin, Mitchell Henry,  
Snelton, Francis Ronald,  
Shepherd, Sarah Bernice,  
Sheriff, Bertha Delphine,  
Siemens, Robert Herman,  
Silloway, Herbert William,  
Silver, Spencer Ferguson,  
Sims, Flenner Blackburn,  
Smith, Flossie La Vone,  
Smith, Alfred Hazel,  
Schmidt, George John,  
Smith, William Monroe,  
Sonner, Grace Amelia,  
Starkey, John Johnson,  
Steele, Eugene Martin,  
Stockham, Herbert Clarke,  
Stolle, Bernard,  
Stowell, Charles Edward,  
Stroud, Earl Adams,  
Sundt, Joseph Marion,  
Swartout, Cornelius,  
Swartz, Jesse Wilmot,  
Swope, Harrison Asbury,  
Switzer, Myrtle Aurella,  
Taylor, Jay Corydon,  
Terry, William Homer,  
Thissell, George,  
Trowbridge, John M.,  
Truman, Fern,  
Utley, Paul Henry,

*Breckenridge.*  
*Cuba.*  
*Urbana.*  
*San Fernando, Pampanga, P. I.*  
*Waverly.*  
*Belleville.*  
*Urbana.*  
*Chicago.*  
*Danville.*  
*Nemaha, Iowa.*  
*Henning.*  
*Oak Park.*  
*Grayville.*  
*Urbana.*  
*Joy.*  
*Sorrento.*  
*Virden.*  
*Urbana.*  
*Danville.*  
*Lamar, Colo.*  
*Keithsburg.*  
*Peoria.*  
*San Jose.*  
*Noble.*  
*Waynesville.*  
*Urbana.*  
*Birmingham, Ala.*  
*Urbana.*  
*Tampa, Fla.*  
*Maroa.*  
*Las Vegas, New Mexico.*  
*Reynolds.*  
*Galesville.*  
*Buda.*  
*Farina.*  
*Urbana.*  
*Viola.*  
*Urbana.*  
*Delavan.*  
*Urbana.*  
*Chicago.*

|                                  |                                |
|----------------------------------|--------------------------------|
| Wacaser, Franklin Edgar,         | <i>Hammond.</i>                |
| Watson, William Minton,          | <i>Aguascalientes, Mexico.</i> |
| Waldron, Harris Richard.         | <i>DeKalb.</i>                 |
| Waldo, Reginald Heber,           | <i>Champaign.</i>              |
| Walker, Clyde Hildebrand,        | <i>St. Joseph.</i>             |
| Weber, Richard Bruno,            | <i>Chicago.</i>                |
| Wildy, Ellen,                    | <i>New Athens.</i>             |
| Wenger, Harry Arnold,            | <i>Urbana.</i>                 |
| White, Edgar Paul,               | <i>Fairmount.</i>              |
| White, Evangeline,               | <i>Urbana.</i>                 |
| White, Robert Lee,               | <i>Fairmount.</i>              |
| Williams, Clarence,              | <i>Champaign.</i>              |
| Wissing, Clement Bernard,        | <i>Vincennes.</i>              |
| Wineman, Earl,                   | <i>Auburn.</i>                 |
| Witherspoon, Jacob Arthur,       | <i>Maxim, Ind.</i>             |
| Wolgast, Fred William,           | <i>Danforth.</i>               |
| Woll, Henry L.,                  | <i>Lovington.</i>              |
| Woolman, Collett Everman,        | <i>Urbana.</i>                 |
| Wright, Sterling Turner Douglas, | <i>Urbana.</i>                 |
| Young, Clarence,                 | <i>Covington, Ind.</i>         |
| Yowell, John Bennett,            | <i>Dudley.</i>                 |
| Zimmerman, George,               | <i>Mason City.</i>             |

#### SPECIALS IN MUSIC.

|                             |                   |
|-----------------------------|-------------------|
| Akers, Nellie,              | <i>Urbana.</i>    |
| Atkinson, Ethel,            | <i>Urbana.</i>    |
| Baird, Ethel,               | <i>Urbana.</i>    |
| Bell, Charles Manley,       | <i>Tolono.</i>    |
| Black, Blanche Clara,       | <i>Urbana.</i>    |
| Boothe, Elizabeth Thomas,   | <i>Champaign.</i> |
| Braman, Olive Ruth,         | <i>Urbana.</i>    |
| Brothers, Golda Edith,      | <i>Urbana.</i>    |
| Brown, Ollie May,           | <i>Homer.</i>     |
| Brown, Ralph Emerson,       | <i>Urbana.</i>    |
| Busey, Carrie Mary,         | <i>Champaign.</i> |
| Coar, Marjorie Belle,       | <i>Urbana.</i>    |
| Curtis, Ethyl Lula,         | <i>Decatur.</i>   |
| Darden, Jesse Lou,          | <i>Champaign.</i> |
| Ebert, Elizabeth Katherine, | <i>Champaign.</i> |
| Hill, Lucy Belle,           | <i>Urbana.</i>    |
| Hopper, Lola Gertrude,      | <i>Arthur.</i>    |

Howe, Amy,  
Jones, Ina Vee,  
Judy, Grace Ethel,  
Kerker, Verna,  
Kern, Emma Ruth,  
Kirby, Mabel,  
Kirkpatrick, Mary Marie,  
Linton, Ruth,  
Osborn, Lela Gertrude,  
Phillippe, Edith Henry,  
Renner, Fay Mary,  
Renner, Roma Ethel,  
Romine, Mary Edmiston,  
Saffell, Gladys DeForrest,  
Shaw, Lottie J, .  
Shepherd, Bernice,  
Shuck, Fred Vinton,  
Simcox, Edith Mae,  
Simcox, Minnie Theresa,  
Sowers, Josephine Belle,  
Stevenson, Chester Edwin,  
Swan, Grace Vernelle,  
Thornburn, Mary,  
Turell, Inez,  
Vanneman, Ralph Benjamin,  
Wade, Luther Clinton,  
Weirs, Gertrude Elizabeth,  
Wendt, Clara Ida,  
Wingfield, Martha Faye,

*Urbana.*  
*Urbana.*  
*Potomac.*  
*Urbana.*  
*Ridgefarm.*  
*Urbana.*  
*Urbana.*  
*Lewistown.*  
*Urbana.*  
*Champaign.*  
*Urbana.*  
*Urbana.*  
*Urbana.*  
*Urbana.*  
*Champaign.*  
*Urbana.*  
*Urbana.*  
*Las Animas, Colo.*  
*St. Joseph.*  
*Urbana.*  
*Urbana.*  
*Waynesville.*  
*Urbana.*  
*Champaign.*  
*Urbana.*  
*Fisher.*  
*Kempton.*  
*Champaign.*  
*Philo.*

# SUMMARY OF STUDENTS—1905-1906

|                            | <i>Men.</i> | <i>Women.</i> | <i>Total.</i> |
|----------------------------|-------------|---------------|---------------|
| GRADUATE SCHOOL.....       | 97          | 26            | 123           |
| UNDERGRADUATE COLLEGES—    |             |               |               |
| Seniors.....               | 230         | 109           | 339           |
| Juniors.....               | 283         | 70            | 353           |
| Sophomores.....            | 334         | 121           | 455           |
| Freshmen.....              | 553         | 160           | 713           |
| Specials.....              | 351         | 117           | 468           |
|                            | 1751        | 577           | 2328          |
| SUMMER SESSION.....        | 295         | 128           | 423           |
| Remained, counted above... | 100         | 41            | 141           |
|                            | 195         | 87            | 282           |
| COLLEGE OF LAW—            |             |               |               |
| Third year.....            | 32          |               | 32            |
| Second year.....           | 23          |               | 23            |
| First year.....            | 62          | 1             | 63            |
| Specials.....              | 30          |               | 30            |
|                            | 147         | 1             | 148           |
| COLLEGE OF MEDICINE—       |             |               |               |
| Seniors.....               | 213         | 19            | 232           |
| Juniors.....               | 114         | 7             | 121           |
| Sophomores.....            | 89          | 9             | 98            |
| Freshmen.....              | 90          | 6             | 96            |
| Unclassified.....          | 16          | 2             | 18            |
|                            | 522         | 43            | 565           |
| COLLEGE OF DENTISTRY—      |             |               |               |
| Seniors.....               | 50          | 1             | 51            |
| Juniors.....               | 36          |               | 36            |
| Freshmen.....              | 55          | 2             | 57            |
|                            | 141         | 3             | 144           |
| SCHOOL OF PHARMACY—        |             |               |               |
| Seniors.....               | 54          | 2             | 56            |
| Juniors.....               | 114         | 2             | 116           |
| Unclassified.....          | 1           |               | 1             |
|                            | 169         | 4             | 173           |
|                            | 3022        | 741           | 3763          |
| Deduct counted twice.....  | 15          | 1             | 16            |
|                            | 3007        | 740           | 3747          |
| ACADEMY.....               | 242         | 85            | 327           |
| Total in University....    | 3249        | 825           | 4074          |

## DEGREES

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Commencement Day, June 7, 1905, degrees were conferred as follows:

### A.B.

|                            |                             |
|----------------------------|-----------------------------|
| Grace Matilda Allen.       | Clifford Crosby.            |
| Mary Elizabeth Allen.      | Ethan Allen Cross.          |
| Edwin Anders.              | Anna Clara Davis.           |
| Thomas Stanley Bailey.     | Forrest Spurgeon Davis.     |
| Imo Estella Baker.         | Christina Denny.            |
| Ira Webster Baker.         | Cromwell Bartlett Dickey.   |
| Mary Elton Barker.         | John Milford Dillavou.      |
| Lela Ethelyn Barnard.      | Silas Echols.               |
| Charles Anthony Barnhart.  | Emma Edmiston.              |
| Olive Lillian Barton.      | Ralph Waldo Elden.          |
| Flora Pearl Mabel Belting. | Laura Mae Eustis.           |
| Arthur Chapman Benson.     | Rose Eilene Fleming.        |
| Charles Jacob Bills,       | Mabel Frances Forbes.       |
| (Class of 1880).           | Ernest Jason Ford.          |
| George William Bishop.     | Margaret Franceway.         |
| Byron Sarver Borton.       | George Puffer Gallaher.     |
| Frank Lloyd Bronson.       | Janet Garwood.              |
| Helen Elizabeth Bullard.   | John Philo Gilbert.         |
| Bertha M Carleton.         | Adolph Gore.                |
| Ralph Merle Carter.        | Lilian Hammers.             |
| Julia Ethel Caswell.       | Myrtle Neta Hannum.         |
| Anna Chester.              | Guy Byron Hardy.            |
| Arthur William Clark.      | John Matthew Harney.        |
| Ella Hazel Clark.          | Mabel Strickland Hayward.   |
| Lois Grace Clendenen.      | Pearl Higinbotham.          |
| Mary Collins.              | Theophil Henry Hildebrandt. |
| Ernest Cook.               | Ida Myrtle Hill.            |
| Thomas L Cook.             | Glidden Hinman.             |

- |                                 |                                |
|---------------------------------|--------------------------------|
| Curtis Elmer Kelso, M.D., 1905, | Lela Gretchen Pilcher.         |
| Mrs. Ida Angeline Kidder.       | Nelle Wheeler Reese.           |
| Arthur William Kirkwood.        | Virginia Campbell Richeson.    |
| Gustave August Kramer.          | Robert Malcolm Ross.           |
| Lucy Mae Lewis.                 | Wade Hampton Rothgeb.          |
| Troy Lovell Long.               | William Gustavus Sachse.       |
| Rena Avis Lucas, B.L.S., 1904,  | Josephine Scherer.             |
| Ethel Electa McAnulty, B.S.,    | Charles Ward Schroeder.        |
| ( <i>Carthage Col.</i> ), 1903. | Carrie Belle Sheldon, Ph.B.,   |
| Estella May McCarthy.           | ( <i>Ottawa Univ.</i> ), 1901. |
| Agnes McDougall.                | Hazel Sloan.                   |
| William McGinley.               | Edwin Raymond Smith.           |
| Sylvester Joseph McGrath.       | Valentine Smith.               |
| Roscoe Plant McNeill.           | Alphonso Perry Standard.       |
| Esther Massey.                  | Angeline Jones Stedman.        |
| Rose Margaret Mather.           | Howard Charles Storm.          |
| George Francis Melharry.        | George Sype.                   |
| Charles Stuart Montooth.        | Ruth Beatrice Taylor.          |
| Henry Hiram Morey.              | Albert Francis Trams.          |
| Ora Sherman Morgan.             | Anna Roberta Van Meter.        |
| Lewis Conrad Moschel.           | Edgar James Vines.             |
| Haven Haanel Moss.              | Laura Belle Warder.            |
| Mary Frances Moss.              | Arthur Ray Warnock.            |
| Blenda Olson.                   | Hilda Kirke White.             |
| Mrs. Allie V Parks.             | Alva Lewis Wilt.               |
| Nelson Chancellor Phillips.     | Harriette Wray.                |

## B.S.

- |                           |                           |
|---------------------------|---------------------------|
| Duff A Abrams.            | Everett Shannon Bonnell.  |
| Ralph Agnew.              | Ralph Emmett Bowser.      |
| Milton Kent Akers.        | Clarence Arthur Braden.   |
| Paschal Allen.            | Carl Kent Brydges.        |
| Leslie Lee Anderson.      | William Thomas Burnett.   |
| Charles Edward Armstrong. | Cara Louis Camp.          |
| George Rockwell Bascom.   | Berton Eugene Carmichael. |
| Willard Jason Bass.       | Maurice LeRoy Carr.       |
| Charles Beck.             | Thomas David Casserly.    |
| David Roy Betts.          | Orlo Dora Center.         |
| Franklin Irving Blair.    | Alice Hartzel Clark.      |
| John Myron Bond.          | William Wharton Clay.     |
| Halbert Evans Boner.      | Berthold Cohen.           |

- |                                   |                                  |
|-----------------------------------|----------------------------------|
| William Garret Corrin.            | Russell James Lewis.             |
| Lawrence Everett Curfman,         | Charles Patrick Augustus         |
| B.S., 1901.                       | Lonergan.                        |
| Frank Woodbury Cutler.            | Bruce Hjalmar Lundahl.           |
| Whitman Dart.                     | Franklin Wales Marquis.          |
| Thomas Meredith Davidson.         | William Roy Martin.              |
| Harry Benjamin Derr.              | Joseph Matousek.                 |
| Charles Fred Dosch.               | Leroy Haskell Maxfield.          |
| William George Eckhardt.          | David Thorpe May.                |
| Ralph Waldo Elden.                | Ernest Edward Meier.             |
| Virgil R Fleming.                 | Louis Charles Frederick Metzger. |
| Sampson James Fountain, B.S.,     | Nellie Augusta Miller.           |
| ( <i>Agr'l and Mech. Coll. of</i> | George Walker Morgan.            |
| <i>Texas</i> ), 1901.             |                                  |
| Frank Sanders Garwood.            | Sidney Dealey Morris.            |
| Herman Edwin Garwood.             | Walter Herman Mueller.           |
| Charles Henry Gibbs.              | Charles Morrison Nuckolls.       |
| Thomas John Gilkerson.            | Charles Slade O'Connell.         |
| Joseph Coleman Gilmour.           | Fred Oscar Pahmeyer.             |
| Leo Arthur Ginzel.                | Walter Harriman Parker.          |
| Harry Fred Godeke.                | John Winthrop Pearson.           |
| Wilbur Fisk Goodspeed.            | Fred George Pegelow.             |
| Hibbard Spencer Greene.           | Alphonso Lorenzo Perry.          |
| Harris Paul Greenwood.            | Frank Alfred Randail.            |
| John Christopher Gustafson.       | Ruth Reat.                       |
| Samuel Cornelius Hadden.          | Edwin Theodore Renner.           |
| Arthur Aldrich Hale.              | William Hanson Roney.            |
| Carl Menelaus Hanstein.           | Howard Meek Roy.                 |
| Howard Spencer Hazen, Jr.         | Harry Kelly Rubey.               |
| Frank William Hillman.            | George Roy Samson, A.B., 1902.   |
| Cleves Harrison Howell, Ph.B.,    | Fred Scott Sawyer.               |
| ( <i>Wooster Univ.</i> ), 1901.   |                                  |
| Harry Alexander Huntoon.          | Hugo Schmidt.                    |
| John Samuels Huntoon.             | Frederick Schott, Jr.            |
| Manuel Joseph Jacobs.             | Alfred George Schutt.            |
| Guy Carlyle Johnstone.            | Claude Henrickson Seymour.       |
| Frederick William Kasten.         | Andrew Bradt Shipman.            |
| Lawrence Swasey Keeler.           | John Earl Shoemaker, A.B., 1903. |
| Eugene Crouse Kenyon.             | Charles Edward Sims.             |
| John Krippner.                    | Charles Edward Skelley.          |
| Otto Kuehlcke.                    | Fred D Smith.                    |

Kenneth Gardner Smith.  
 Wesley Newton Spitler.  
 Roy Stebbins.  
 William Sumner Thayer.  
 James Arthur Thompson.  
 Albert Fred Triebel.

Edgar White Wagenseil.  
 William Herbert Warner.  
 Chris Beach Watrous.  
 Edmund Burke Wheeler.  
 Frank Rae Winders.  
 Robert Elgene Yolton.

## LL.B.

Lawrence Thompson Allen.  
 Harry Lehre Boon, A.B., 1903.  
 George Morey Clendenin.  
 Harry Thomas Dewhirst.  
 James John Graham.  
 Charles Henry Hittson.  
 Clarence Wilbert Hughes, A.B.,  
 1900.

Frederick Bowman Penwell.  
 Henry Everett Pond.  
 Robin Roy Reid.  
 Clarence Judson Rosebery.  
 William Edgar Sampson.  
 John T. Scott.  
 Thomas Barrington Franklin  
 Smith.

Thomas Lewis Jarrett.  
 James Abraham Marley.  
 Carl August Melin.

Andrew Edward Tracey.  
 Ulysses Garfield Ward.

## B.L.S.

Bertha Julia Bond.  
 Abby Brayton.  
 Helen Vera Calhoun.  
 Marcia Barnes Clay.  
 Helen Mary Crane.  
 Margaret Elizabeth Grafius.  
 Elizabeth Grosvenor Green, A.B.,  
 1904.

Francis Keese Wynkoop Drury,  
 A.M., (*Rutgers Coll.*), 1905.  
 Mrs. Mary Lawrence East.  
 Josephine Ruth Elliott.  
 Isabella Fyfe.  
 Grace Darling Phillips.  
 Anna Shaw Pinkum, B.L.,  
 (*Univ. of Wis.*), 1899.

Edith Elizabeth Harper.  
 Josie Batchelor Houchens,

Carrie Belle Sheldon, Ph.B.,  
 (*Ottawa Univ.*), 1901.

A.B., 1903. Della Jarrett Sisler.

Guess Humphrey, A.B., 1902.  
 Emily Lavinia Nichols.

Charles Wesley Smith, A.B.,  
 1903.

## B.Mus.

Sophie Mary Voss.

## Ph.D.

Yasuzo Sakagami, M.L., (*Univ. of Minn.*), 1899.

## A.M.

Charley Francis Briscoe, A.B., Myra Abbie Mather, A.B., 1904.  
     (*Indiana Univ.*), 1899. Ido Franklin Meyer, Ph.B.,  
 Cary Clive Burford, A.B., 1904. (*Iowa Coll.*), 1904.  
 Arthur Donaldson Emmett, Maurice Holmes Rees, A.B.,  
     B.S., 1901. (*Monmouth Coll.*), 1904.  
 Emery Roe Hayhurst, A.B., 1903. John Carl Stine, A.B., 1903.  
 Clarence Wilbert Hughes, A.B., Burton B Wilcox, A.B., 1904.  
     1900.

## M.S.

Walter Burrows Brown, B.S., Daniel Thomas Gray, A.B., B.S.,  
     1897. (*Univ. of Mo.*), 1904.  
 Harry Bert Fox, B.S., 1900. Leroy C Wilson, B.S., 1904.

## M. ARCH.

Shigetsura Shiga, B.S., 1893.

## M.E.

Henry Burnhard Dirks, B.S., 1904. Dwight T Randall, B.S., 1897.  
 Frank Stanley Hadfield, B.S., 1904. Frederick William Richart, B.S.,  
     1891.

## C.E.

Leslie Abram Waterbury, B.S., 1902.

At the commencement of the College of Medicine, June 6, 1905,  
 degrees were conferred as follows:

## M.D.

|                             |                               |
|-----------------------------|-------------------------------|
| William Richard Agate, A.M. | Frederick Oswald Beck, Ph.G.  |
| George Ludwig Alt.          | Arthur Herbert Beebe.         |
| Malcolm Percival Andrews.   | Xenia Ethel Bond, A.M.        |
| Francis John Antoine.       | Fred Phelps Bowen.            |
| Edward Kent Armstrong.      | E. Arthur Bowles.             |
| Harold Le Roy Avery.        | C. Gareld Brethouwer.         |
| Daniel Francis Ayers.       | James Carse Brixey.           |
| Henry Patterson Bagley.     | Frederick Brown.              |
| Nellie M. Baker.            | John Payne Browne, B.S.       |
| Jesse Ballou.               | James Edward Buckley, D.D.S., |
| Justin Guy Ballou.          | Ph.G.                         |
| Clayton Elmer Bartlett.     | Albert Ross Burgess.          |
| William Hunter Barr.        | Lyman Ambrose Burnside.       |
| David Emmanuel Bass, B.S.,  | Herman Busman.                |

- Forrest Russell Butterfield.  
 Matthew Philander Cady.  
 Joseph Robert Cameron.  
 William Patrick Cannon.  
 Walter Caron, Ph.G.  
 Frank Taylor Cary.  
 William E. Casey.  
 John August Christenson, A.B.  
 Arthur Neville Clagett, B.D.  
 Charles Cornelius Clark.  
 Daniel Thomas Cole.  
 Stanley Ray Coleman.  
 Robert Earle Conklin.  
 James Joseph Costanzo.  
 J. Allen Crawshaw.  
 James Adam Crouch.  
 Fred Sheets Cuthbert.  
 George H. Dando, B.S.  
 Bertram Charles Davies.  
 Harriet Davies, A.B.  
 Floren Fred Davis.  
 Leonard Pratt Dawes.  
 George Almarion Dean.  
 Arthur J. E. Decker.  
 William Edward Dodge.  
 Ferdinand Edward Dostal.  
 James Edward Dowd.  
 Jirah Marston Downs.  
 James T. Duhigg.  
 Vernon Amasa Dunshee.  
 John Bernard Eagan.  
 James Edward Edwards, A.M.  
 John Joseph Egan.  
 Thomas Sylvester Egan.  
 William Joseph Egan.  
 Benjamin Ernst Eversmeyer.  
 Frank John Fara.  
 David Clifford Farquahar.  
 Frank Bernhardt Fastabend.  
 David Henry Fitzgerald.  
 Archibald Gray Fletcher.  
 Harry Rox Folckemer.  
 George Edward Forkin.  
 Edson Elisha Gadd.  
 William V. Gale, B.S., Ph.G.  
 Charles Virgil Ganoe.  
 Justus Corbly Garard.  
 Merritt Nelson Gernsey.  
 William Adolph George, B.S.,  
 Ph.G.  
 Charles Frederick Goetzinger.  
 Charles Edwin Godwin.  
 J. Matt Gordon, B.S.D.  
 Charles Philip Gore.  
 Oscar Emanuel Grant, A.B.  
 William Karg Gray.  
 William Charles E. Greenwald.  
 Benjamin Chase Grout.  
 Martin Melvin Grove.  
 Frank M. Hagans.  
 Emil Hahn.  
 Marshall William Harner.  
 Romeo Catlin Harner.  
 Patrick Henry Hastings, Ph.G.  
 Arthur Russell Hayton.  
 Alva Hiett.  
 Samuel George Higgins, B.S.  
 Anna Bolender Hinds.  
 Harry James Hoag.  
 Hubertus J. H. Hoeve.  
 Fred Grant Hopkins.  
 Abram Hostetter.  
 Ruffin Barrow Jacks.  
 Harry Asbury Jefferson.  
 Joseph A. Jerger.  
 Henriette Amanda Johnson.  
 Harold Herbert Johnson.  
 Fred Wade Jones.  
 Griffeth Moses Jones.  
 John Branson Jones.  
 James Francis Kearney.  
 Charles Dilworth Kelly.

|                               |                                  |
|-------------------------------|----------------------------------|
| Curtis Elmer Kelso.           | Henry C. Peterson.               |
| Harley Emmett Keyes.          | Enoch Fred Peterson, Ph.G.       |
| John Joseph Killeen.          | Sigmar Pirosh.                   |
| Theophilus Kubricht.          | Tilman Howard Plank.             |
| Le Roy Phillip Kuhn.          | Charles Julius Plonski.          |
| Shirley Charles Lang.         | Clarence Day Powell.             |
| William F. Lauterbach.        | George J. Powers.                |
| William Martin Lawyer, A.M.   | Carl Matthew Ranseen, B.S.       |
| Clare Sumner Learned          | Melbourne, Raynour B.S.A.        |
| Emil Zola Levitin             | William Henry Reed, A.B.         |
| Joseph William Livingstone    | Daniel E. Ricardo.               |
| Albert Luesing                | Felix Herman Renberg.            |
| Lawrence S. B. Lundwall.      | Harrison Christian Riegel, Ph.G. |
| Charles McArthur.             | Henry Andrew Roach.              |
| Charles Asa McConnell, B.S.   | Frederick Henry Rodemeyer.       |
| John Alexander McKay.         | Albert Alexander Roth.           |
| Frank William Mackoy.         | Frederick Rudnick, Ph.G.         |
| Charles Alford Magahy.        | Robert Karlson Sarheim.          |
| Clark Champlin Meeks.         | Robert Garfield Savage.          |
| Wheeler Hayes Melvin.         | Elisha E. Sayad.                 |
| Charles Walter Merritt.       | Charles Peter Schell.            |
| Frank Waldo Merritt.          | Charles Henry Schmidt, Ph.G.     |
| Agnes Mikkelsen               | Charles Mathias Schoen, A.B.     |
| Charles Archer Miller, A.B.   | Oscar Victor Schrøeter.          |
| George Edwards Miller         | Orie Frank Schullian             |
| John Frederick Miller         | Louis Schulz, D.D.S.             |
| William Montgomery.           | Henry Thomas Sethmey.            |
| George Wilford Moore.         | Margaret Sherlock.               |
| Leone Morden.                 | Frank Elmer Shimer.              |
| Nelson Case Morrow, B.S.      | Rudolph Virchow Sintzel.         |
| William Chalmers Mount.       | Hugh Henry Slocumb.              |
| Patrick A. Murphy.            | Maude Stephens Slocumb.          |
| Louis Winfield Myers.         | Orley Eugène Smith.              |
| Albert Okerstrom, A.B.        | Frank William Sorrell.           |
| Olof Olsson, A.B.             | Arthur K. Stangland.             |
| Francis William O'Neill, A.B. | Lester Miles Stearns             |
| Carl August Palm.             | Richard Charles Steffen          |
| Thomas Jefferson Palmer.      | Roy George Stevens.              |
| George Parke.                 | Raymond Ward Stough.             |
| Olon Earl Parmelee.           | Ralph Spencer Stryker.           |
| Benjamin Perry, Ph.G.         | Clarence Everett Sturgeon.       |

Tannus Ferris Tannus.  
 William Scott Tompkinson.  
 Eugene E. Tupper.  
 Frank Underwood.  
 Fay McVey Vanatta.  
 George Hiram VanKirk.  
 James Alois Wagner.  
 Eugene Wallace  
 Joseph Mark Walsh.  
 William George Weideman.  
 Michael Charles Welch.  
 Herbert Bertram Wentz.

Charles Frank Werner.  
 Ross Steele Weyer.  
 Carl Hixson Wilkinson.  
 Frank Vanatta Willhite.  
 Ira Raymond Willits.  
 Sena Louisa Willmering.  
 Clifford Vane Winsett, Ph.B.,  
 Ph.G.  
 Simon Leo Wissig.  
 Wesley John Woolston.  
 Frederick Woltmann.

At the commencement of the School of Pharmacy, April 27, 1904; degrees were conferred as follows:

#### PH.G.

Carl Martin Aaseth  
 Benjamin Robert Abrams.  
 Carl Godfrey Anderson.  
 Frederick L. G. Berthlein.  
 Arthur E. Curtis.  
 Lawrence August Dickhut.  
 Guy Garland Dillow.  
 William Vincent Dufner.  
 August Edward Gerhardt.  
 George J. J. Guerten.  
 Michael Indovina.  
 Herman Ferdinand Jacob.  
 Milton Johnson.  
 Thure William Johnson.  
 Thomas Lewis Larson.  
 John Victor Lee.  
 Justin Aaron Levin.  
 William Henry Longshore.  
 Walter Henry Moreland.  
 Leonard Joseph Ostrowski.  
 Louis W. Plummer.  
 Charles Edward Powell.  
 Theodor Immanuel Scheips.

Bernard Hermann Schultejann.  
 John Martin Siebrandt.  
 Harry Eugene Slauson.  
 Hugo Franz Staack.  
 John Herman Wehrley.  
 Thomas Hudson Wile.  
 Walter Hines Whisenant (class  
 of '01).  
 Lewis Lambert Alkire (class of  
 '03).  
 David Zamentowsky (class of '03).  
 Bertram Louis Breithaupt (class  
 of '04).  
 Raymond Nelson Hards (class of  
 '04).  
 Phillip Charles Johnson (class of  
 '04).  
 Forrest David Macham (class of  
 '04).  
 Charles Edward Mattix (class of  
 '04).  
 Stanley Rensselaer Pattison (class  
 of '04).

At the commencement of the College of Dentistry, May 6, 1905, degrees were conferred as follows:

## D.D.S.

|                             |                             |
|-----------------------------|-----------------------------|
| Herbert Swiger Alsip.       | Charles McDowell.           |
| George Dunn Ament.          | Elmer N. McDowell.          |
| Bernard B. Autenrieth.      | James Edward McKahan.       |
| Earl Root Bailey.           | Jeremiah Francis McSwiggin. |
| Grace Baker.                | Jay Phillips Marshall.      |
| Walter Howard Berry.        | N. Ray Mecham.              |
| Harry Seacord Bott.         | Albert Mindlin.             |
| James Alfred Campbell.      | Vernon Alvin Moore.         |
| Leon William Clancey.       | Arthur G. Nauman.           |
| John Robert Clarey.         | Robert G. Norgren.          |
| Charles Edgar Comer.        | Clarence C. Nugent.         |
| William Horace Crandall.    | David A. Peterson.          |
| John Elbert Darmer.         | J. Chester Pogue.           |
| Lee Earl Eiser.             | William Roy Porterfield.    |
| J. Joseph Flanigan.         | Michael James Quinlin.      |
| George Edwin Funston.       | Stonewall J. Ramsey.        |
| Stephen Francis Gordon.     | Roland Roderick Rains.      |
| Milton Absalom Grissom.     | Paul A. Rotzoll.            |
| Rogert John Gunn.           | Theodore L. Schroeder.      |
| George Russell Houston.     | Harry V. Shaw.              |
| Kenneth Ward Houston.       | Charles M. Sherrill.        |
| Robert Edgar Houston.       | F. Heyworth Smith.          |
| Francis Hodge Ivey.         | Irving Leland Smith.        |
| Frank Hetherington Kelly.   | Edward William Smith.       |
| Norman LeRoy Kerr.          | Maurice Harry Spare.        |
| Nathan Kimmel.              | George Hume Stephenson.     |
| William Aloysius Krebs.     | Arthur J. Stevens.          |
| Robert William Krog.        | Wilhelm Ferdinand Stone.    |
| J. Bryon LaDue.             | Homer Briddell Strain.      |
| Harvey Middleton Lancaster. | James M. Thomas.            |
| Edwin Arthur Lewin.         | Tom Waterworth.             |
| Thomas Henry Logan.         | David Ignatz Weisz.         |
| Arthur Garfield Lyle.       | Arthur LaMonte Wood.        |
| William George McCall.      | Peter Frank Wybraniec.      |
| John Francis McDonnell.     | Arthur John Hellmuth Young. |

# SCHOLARSHIPS, HONORS, AND COMMISSIONS

## HONORARY SCHOLARSHIP

|         |                           |                   |
|---------|---------------------------|-------------------|
| Fulton, | Work, Robert Frankenburg, | <i>Rushville.</i> |
|---------|---------------------------|-------------------|

## COUNTY SCHOLARSHIPS

|            |                        |                    |
|------------|------------------------|--------------------|
| Adams,     | Hewes, Floyd S.,       | <i>Quincy.</i>     |
| Adams,     | Jacob, Ernest O.,      | <i>Quincy.</i>     |
| Adams,     | Harkness, Columbus L., | <i>Adams.</i>      |
| Alexander, | Powers, Wilbur L.,     | <i>Tilkilwa.</i>   |
| Alexander, | Butler, Comfort S.,    | <i>Cairo.</i>      |
| Bond,      | Armstrong, Robert,     | <i>Reno.</i>       |
| Bond,      | Stowe, Loyd R.,        | <i>Greenville.</i> |
| Boone,     | Gill, Thomas E.,       | <i>Pecatonica.</i> |
| Boone,     | Bailey, Ernest H.,     | <i>Geneva.</i>     |
| Brown,     | Bard, Jacob W.,        | <i>Quincy.</i>     |
| Brown,     | Malcomb, Howard S.,    | <i>Roseville.</i>  |
| Brown,     | Hersman, Francis C.,   | <i>Hersman.</i>    |
| Bureau,    | McManus, James W.,     | <i>La Moille.</i>  |
| Bureau,    | Waddell, Charles A.,   | <i>Princeton.</i>  |
| Bureau,    | Knox, Samuel M., Jr.,  | <i>Sheffield.</i>  |
| Calhoun,   | Green, Bessie R.,      | <i>Ivesdale.</i>   |
| Calhoun,   | Stone, Paul P.,        | <i>Lincoln.</i>    |
| Calhoun,   | Ernest, Thomas R.,     | <i>Swanwick.</i>   |
| Carroll,   | Madison, George,       | <i>Savanna.</i>    |
| Carroll,   | Strauch, Bernard A.,   | <i>Chadwick.</i>   |
| Carroll,   | Daehler, Albert H.,    | <i>Chadwick.</i>   |
| Cass,      | Robertson, Norman S.,  | <i>Beardstown.</i> |
| Cass,      | Blohm, Lee R.,         | <i>Beardstown.</i> |
| Cass,      | Stedman, Royal B.,     | <i>Beardstown.</i> |
| Champaign, | Woodin, Earl B.,       | <i>St. Joseph.</i> |
| Champaign, | Egy, Willard L.,       | <i>Urbana.</i>     |
| Champaign, | Leidendeker, Frank E., | <i>Urbana.</i>     |

|                           |                         |                     |
|---------------------------|-------------------------|---------------------|
| Champaign,                | Pearce, Ira,            | <i>Champaign.</i>   |
| Christian,                | Adams, Leason H.,       | <i>Taylorville.</i> |
| Christian,                | Young, Roy N.,          | <i>Springfield.</i> |
| Christian,                | Large, George P.,       | <i>Owaneco.</i>     |
| Christian,                | Putnam, Walter E.,      | <i>Pana.</i>        |
| Clark,                    | Carrithers, Ira T.,     | <i>Saunemin.</i>    |
| Clark,                    | Hubbart, Curtis C.,     | <i>Champaign.</i>   |
| Clay,                     | Moore, Samuel B.,       | <i>Louisville.</i>  |
| Clay,                     | Robinson, Willis S.,    | <i>Champaign.</i>   |
| Clay,                     | Doherty, Robert E.,     | <i>Clay City.</i>   |
| Clinton,                  | Little, Robert F.,      | <i>Tolono.</i>      |
| Clinton,                  | Coggeshall, Lester B.,  | <i>Oakwood.</i>     |
| Clinton,                  | Schaefer, Paul V.,      | <i>Carlyle.</i>     |
| Coles,                    | Byers, Frank M.,        | <i>Charleston.</i>  |
| Coles,                    | Stewart, Charles S.,    | <i>Charleston.</i>  |
| 1st Senatorial District,  | Almy, William H.,       | <i>Sterling.</i>    |
| 1st Senatorial District,  | Adams, Glen,            | <i>Moweaqua.</i>    |
| 2nd Senatorial District,  | Van Doren, Carl C.,     | <i>Urbana.</i>      |
| 2nd Senatorial District,  | Carper, John Fisher,    | <i>Buda.</i>        |
| 3rd Senatorial District,  | Gunn, Alexander H.,     | <i>Evanston.</i>    |
| 3rd Senatorial District,  | Neilsen, Joseph N.,     | <i>Chicago.</i>     |
| 3rd Senatorial District,  | Zaerr, Byron L.,        | <i>Chicago.</i>     |
| 3rd Senatorial District,  | Hawley, Ralph S.,       | <i>La Grange.</i>   |
| 3rd Senatorial District,  | Hill, Harry S.,         | <i>Paxton.</i>      |
| 4th Senatorial District,  | West, Porter R.,        | <i>Watseka.</i>     |
| 4th Senatorial District,  | Clifford, Winnifred H., | <i>Champaign.</i>   |
| 4th Senatorial District,  | Coleman, William F.,    | <i>Chicago.</i>     |
| 5th Senatorial District,  | Weber, Emil A.,         | <i>Champaign.</i>   |
| 5th Senatorial District,  | Dean, Harold C.,        | <i>Chicago.</i>     |
| 6th Senatorial District,  | Hellmann, Karl A.,      | <i>Chicago.</i>     |
| 6th Senatorial District,  | Hesse, Lawrence G.,     | <i>Evanston.</i>    |
| 6th Senatorial District,  | Kressman, Fred W.,      | <i>Chicago.</i>     |
| 7th Senatorial District,  | Franklin, Howard B.,    | <i>Harvey.</i>      |
| 7th Senatorial District,  | Llewellyn, Clarinne,    | <i>La Grange.</i>   |
| 7th Senatorial District,  | Olsen, Sharon M.,       | <i>Morgan Park.</i> |
| 7th Senatorial District,  | Pettigrew, James I.,    | <i>Harvey.</i>      |
| 9th Senatorial District,  | Gunthrop, James M.,     | <i>Chicago.</i>     |
| 9th Senatorial District,  | Hanson, Herman L.,      | <i>Paxton.</i>      |
| 11th Senatorial District, | Maddock, Alice E.,      | <i>Chicago.</i>     |
| 11th Senatorial District, | Underwood, Wilbert E.,  | <i>Chicago.</i>     |
| 11th Senatorial District, | Brundage, Avery,        | <i>Chicago.</i>     |

|                           |                        |                        |
|---------------------------|------------------------|------------------------|
| 13th Senatorial District, | Augustinus, Paul,      | <i>Evanston.</i>       |
| 13th Senatorial District, | Weston, Frederick W.,  | <i>Chicago.</i>        |
| 15th Senatorial District, | Doherty, Mary G.,      | <i>La Grange.</i>      |
| 15th Senatorial District, | Alverson, Maud L.,     | <i>Urbana.</i>         |
| 17th Senatorial District, | Grauten, Sylvester H., | <i>Chicago.</i>        |
| 17th Senatorial District, | Bowditch, Roy,         | <i>Urbana.</i>         |
| 19th Senatorial District, | Granpré, Ambrose G.,   | <i>Chicago.</i>        |
| 19th Senatorial District, | Jessup, Richard D.,    | <i>Chicago.</i>        |
| 19th Senatorial District, | Cutler, Stanley G.,    | <i>Chicago.</i>        |
| 21st Senatorial District, | Mack, Louis W.,        | <i>Chicago.</i>        |
| 21st Senatorial District, | Tear, Herbert L.,      | <i>Chicago.</i>        |
| 21st Senatorial District, | Boynton, Napoleon H.,  | <i>Chicago.</i>        |
| 23rd Senatorial District, | Klein, David,          | <i>Chicago.</i>        |
| 23rd Senatorial District, | Huth, Walter H.,       | <i>Chicago.</i>        |
| 23rd Senatorial District, | Hanson, Frank L.,      | <i>Chicago.</i>        |
| 23rd Senatorial District, | Fink, Erna M. E.,      | <i>Chicago.</i>        |
| 25th Senatorial District, | Van Petten, Robert M., | <i>Champaign.</i>      |
| 25th Senatorial District, | Hjort, Nels R.,        | <i>Chicago.</i>        |
| 27th Senatorial District, | Sanders, John J.,      | <i>Chicago.</i>        |
| 27th Senatorial District, | Huber, Joseph E.,      | <i>Champaign.</i>      |
| 29th Senatorial District, | Thomas, Minnie E.,     | <i>Chicago.</i>        |
| 29th Senatorial District, | Hill, Nathan R.,       | <i>Champaign.</i>      |
| 29th Senatorial District, | Jordan, Myron K.,      | <i>Savoy.</i>          |
| 31st Senatorial District, | Hachmeister, Henry W., | <i>Chicago.</i>        |
| 31st Senatorial District, | Johnston, Ernest H.,   | <i>Chicago.</i>        |
| 31st Senatorial District, | Lanferman, Walter E.,  | <i>Chicago.</i>        |
| 31st Senatorial District, | Chinlund, Joseph F.,   | <i>Chicago.</i>        |
| Crawford,                 | Bevis, Dailey G.,      | <i>Newton.</i>         |
| Crawford,                 | Martin, Olive,         | <i>Sullivan.</i>       |
| Cumberland,               | Lord, Maurice F.,      | <i>Plano.</i>          |
| DeKalb,                   | Peck, Harry S.,        | <i>Champaign.</i>      |
| DeKalb,                   | Pond, Ethel C.,        | <i>Sycamore.</i>       |
| DeKalb,                   | Lund, James C.,        | <i>Paxton.</i>         |
| DeWitt,                   | Davis, Nell S. M.,     | <i>Farmer City.</i>    |
| DeWitt,                   | Matthews, Nellie P.,   | <i>Clinton.</i>        |
| DeWitt,                   | Holmquist, Fred N.,    | <i>Weldon.</i>         |
| Douglas,                  | Moore, Louis C.,       | <i>Newman.</i>         |
| Douglas,                  | Lewis, Lucy,           | <i>Danville.</i>       |
| DuPage,                   | Strauch, Oswald F.,    | <i>Chadwick.</i>       |
| DuPage,                   | Greene, William B.,    | <i>Dozener's Grove</i> |
| DuPage,                   | Thompson, George B.,   | <i>Wheaton.</i>        |

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| Edgar,     | Boone, Charles G.,    | <i>Chrisman.</i>     |
| Edgar,     | Brewer, William E.,   | <i>Newman.</i>       |
| Edgar,     | Tucker, Jesse O.,     | <i>Champaign.</i>    |
| Edgar,     | Potter, Charles P.,   | <i>Hoopeston.</i>    |
| Edwards,   | Woodham, Harry,       | <i>Albion.</i>       |
| Edwards,   | Storer, Frances L.,   | <i>Champaign.</i>    |
| Edwards,   | Evans, Martin E.,     | <i>Chebanse.</i>     |
| Effingham, | Poorman, Alfred P.,   | <i>Altamont.</i>     |
| Effingham, | Stair, Jacob L.,      | <i>Altamont.</i>     |
| Effingham, | Poorman, Amy,         | <i>Altamont.</i>     |
| Fayette,   | Boardman, Harry C.,   | <i>Plainfield.</i>   |
| Ford,      | Thomson, Fred N.,     | <i>Paxton.</i>       |
| Ford,      | Black, Grace J.,      | <i>Urbana.</i>       |
| Ford,      | Bushnell, Ethel M.,   | <i>Paxton.</i>       |
| Ford,      | Bainum, Glenn Cliff,  | <i>Paxton.</i>       |
| Franklin,  | Tucker, Burton F.,    | <i>Anna.</i>         |
| Fulton,    | Swart, Harmon D.,     | <i>Lewistown.</i>    |
| Fulton,    | Ray, Arthur J.,       | <i>Cuba.</i>         |
| Fulton,    | Young, Thomas E.,     | <i>Lewistown.</i>    |
| Fulton,    | Linton, Margie,       | <i>Lewistown.</i>    |
| Gallatin,  | Rowland, Claude K.,   | <i>Martinsville.</i> |
| Greene,    | Howell, Leslie D.,    | <i>Ipava.</i>        |
| Greene,    | Simpson, Lynn P.,     | <i>Carrollton.</i>   |
| Grundy,    | Powers, Lawrence C.,  | <i>Tiskilwa.</i>     |
| Grundy,    | Reeves, Alfred J.,    | <i>Morris.</i>       |
| Grundy,    | Moss, Royal R.,       | <i>Morris.</i>       |
| Hamilton,  | Miller, Karl F. K.,   | <i>Cairo.</i>        |
| Hardin,    | Cooke, Allan B.,      | <i>Danville.</i>     |
| Hardin,    | Knight, Otis T.,      | <i>Marion.</i>       |
| Hancock,   | Baxter, Miles E.,     | <i>Nauvoo.</i>       |
| Hancock,   | Powell, Clure M.,     | <i>Bowen.</i>        |
| Henderson, | Pruitt, Forrest A.,   | <i>Watseka.</i>      |
| Henderson, | Baxter, Charles B.,   | <i>Nauvoo.</i>       |
| Henderson, | Yarnell, Jacob H.,    | <i>Bowen.</i>        |
| Henry,     | Cummings, Preston W., | <i>Sheffield.</i>    |
| Henry,     | Williams, Grace A.,   | <i>Galva.</i>        |
| Iroquois,  | Dillon, Lee A.,       | <i>Sheldon.</i>      |
| Iroquois,  | Morton, James H.,     | <i>Ashkum.</i>       |
| Jackson,   | Moss, Charles T.,     | <i>Urbana.</i>       |
| Jackson,   | Rollo, Ralph A.,      | <i>Murphysboro.</i>  |
| Jasper,    | Garrison, Lloyd,      | <i>Milford.</i>      |

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|-------------|---------------------------|-----------------------|
| Jasper,     | Ramser, Charles E.,       | <i>Newton.</i>        |
| Jefferson,  | Hinman, John H.,          | <i>Mt. Vernon.</i>    |
| Jefferson,  | Mann, Mary E.,            | <i>Gilman.</i>        |
| Jersey,     | Flowers, Roy W.,          | <i>Quincy.</i>        |
| Jersey,     | Hake, Harry G.,           | <i>Barry.</i>         |
| Jersey,     | Roberts, Clarence G.,     | <i>Beardstown</i>     |
| Jo Daviess, | Bench, Alfred R.,         | <i>Galena.</i>        |
| Jo Daviess, | Nutting, Harry G. D.,     | <i>Rock Island.</i>   |
| Jo Daviess, | Schafmayer, Albert J.,    | <i>Scales Mound.</i>  |
| Jo Daviess, | Shackell, Bessie,         | <i>Galena.</i>        |
| Johnson,    | Snow, Lloyd A.,           | <i>Vienna.</i>        |
| Johnson,    | Hook, Charles A.,         | <i>Vienna.</i>        |
| Johnson,    | Murrell, Benjamin N.,     | <i>Vienna.</i>        |
| Johnson,    | Rosenberg, David,         | <i>Vienna.</i>        |
| Kane,       | Dunning, William B.,      | <i>Aurora.</i>        |
| Kane,       | Miller, John J.,          | <i>Geneva.</i>        |
| Kankakee,   | Perreault, Maurice S.,    | <i>St. Anne.</i>      |
| Kankakee,   | Maddox, Wilbur C.,        | <i>Galva.</i>         |
| Kankakee,   | Van Inwagen, Frank,       | <i>Momence.</i>       |
| Kankakee,   | Clarke, Carrie Louise,    | <i>Momence.</i>       |
| Kendall,    | Rood, Kate,               | <i>Plano.</i>         |
| Knox,       | Parsons, Maud E.,         | <i>Elgin.</i>         |
| Knox,       | Sussex, Harry,            | <i>Abingdon.</i>      |
| Lake,       | Noerenberg, Clarence E.,  | <i>Highland Park.</i> |
| Lake,       | Haines, Arthur C.,        | <i>Gibson City.</i>   |
| Lake,       | Kaiser, Oscar,            | <i>Libertyville.</i>  |
| LaSalle,    | Schaller, Alvin,          | <i>Mendota.</i>       |
| LaSalle,    | McCullough, Frederick R., | <i>Streator.</i>      |
| LaSalle,    | Retz, Rosalie M.,         | <i>Ottawa.</i>        |
| Lawrence,   | Archer, Charles L.,       | <i>Carmi.</i>         |
| Lawrence,   | Tanquary, Maurice C.,     | <i>Lawrenceville.</i> |
| Lee,        | Billings, Walter E.,      | <i>Geneseo.</i>       |
| Lee,        | Baird, Grace J.,          | <i>De Kalb.</i>       |
| Lee,        | Smith, Irwin W.,          | <i>Champaign.</i>     |
| Livingston, | Strawn, James A.,         | <i>Pontiac.</i>       |
| Livingston, | Evvard, John M.,          | <i>Pontiac.</i>       |
| Livingston, | Hager, Earl N.,           | <i>Dwight.</i>        |
| Logan,      | Howser, Theron R.,        | <i>Lincoln.</i>       |
| Logan,      | Applegate, Annie M.,      | <i>Atlanta.</i>       |
| McDonough,  | Burns, Deane,             | <i>Macomb.</i>        |
| McDonough,  | Terrill, Fred,            | <i>Colchester.</i>    |

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|-------------|-----------------------|-----------------------|
| McDonough,  | Holton, C. R.,        | <i>Colchester.</i>    |
| McHenry,    | Slawson, Harry H.,    | <i>Harvard</i>        |
| McHenry,    | Stevens, Grace E.,    | <i>Marengo.</i>       |
| McLean,     | Moore, Frances G.,    | <i>Bloomington.</i>   |
| McLean,     | Crum, Ethel,          | <i>Lexington.</i>     |
| McLean,     | Broadhead, Lemma C.,  | <i>Normal.</i>        |
| Macon,      | Hutchins, Claire E.,  | <i>Decatur.</i>       |
| Macon,      | Hadley, Homer L.,     | <i>Maroa.</i>         |
| Macoupin,   | Braley, Howard D.,    | <i>Virden.</i>        |
| Madison,    | Ward, Owen M.,        | <i>Champaign.</i>     |
| Madison,    | Lowry, Thomas G.,     | <i>Upper Alton.</i>   |
| Madison,    | Matheny, Lee V.,      | <i>Chenoa.</i>        |
| Marion,     | Hewes, Clarence A.,   | <i>Quincy.</i>        |
| Marshall,   | Dewey, Homer H.,      | <i>Henry.</i>         |
| Marshall,   | Corrigan, Edward,     | <i>New Berlin.</i>    |
| Marshall,   | Bonham, Winne M.,     | <i>Macomb.</i>        |
| Marshall,   | Williams, Pauline L., | <i>Henry.</i>         |
| Mason,      | Shade, Imogene,       | <i>Bloomington.</i>   |
| Mason,      | Stevenson, Milton L., | <i>Mason City.</i>    |
| Mason,      | Kreiling, Chris H.,   | <i>Forest City.</i>   |
| Massac,     | Slater, Willis A.,    | <i>Fairbury.</i>      |
| Massac,     | Helm, Roy R.,         | <i>Metropolis.</i>    |
| Massac,     | Brown, Edward W.,     | <i>Metropolis.</i>    |
| Menard,     | Hall, Ward E.,        | <i>La Moille.</i>     |
| Menard,     | Devine, Robert P.,    | <i>Chester.</i>       |
| Mercer,     | Edwards, John I.,     | <i>Aledo.</i>         |
| Mercer,     | Hasson, Harry B.,     | <i>Moline.</i>        |
| Mercer,     | Lee, Charles B.,      | <i>Aledo.</i>         |
| Monroe,     | Dodd, Townsend F.,    | <i>Anna.</i>          |
| Monroe,     | Stahl, Clark B.,      | <i>Galena.</i>        |
| Montgomery, | Saathoff, George W.,  | <i>Litchfield.</i>    |
| Montgomery, | Barton, Walter E.,    | <i>Nokomis.</i>       |
| Montgomery, | Osborn, John M.,      | <i>Butler.</i>        |
| Montgomery, | Rice, Grover C.,      | <i>Irving.</i>        |
| Morgan,     | Buxton, Edwin W.,     | <i>Jacksonville.</i>  |
| Morgan,     | Eagle, Fred W.,       | <i>Hillsboro.</i>     |
| Moultrie,   | Davidson, Dora,       | <i>Sullivan.</i>      |
| Moultrie,   | Gwinn, Alta,          | <i>Oakland.</i>       |
| Moultrie,   | Davis, Seymour M.,    | <i>Farmer City.</i>   |
| Moultrie,   | Craig, Ollison,       | <i>Sullivan.</i>      |
| Ogle,       | Andrew, Charles E.,   | <i>Paine's Point.</i> |

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|--------------|------------------------|-------------------------|
| Ogle,        | Thompson, Emmett C.,   | <i>Byron.</i>           |
| Ogle,        | Rush, Louis A.,        | <i>Byron.</i>           |
| Peoria,      | Robertson, Roy C.,     | <i>Peoria.</i>          |
| Peoria,      | Chichester, Emily,     | <i>Brimfield.</i>       |
| Perry,       | Gambach, Jacob,        | <i>Hecker.</i>          |
| Perry,       | Ervin, John F.,        | <i>Cutler.</i>          |
| Perry,       | Swayne, Ethel,         | <i>Du Quoin.</i>        |
| Piatt,       | Gross, Alfred O.,      | <i>Atwood.</i>          |
| Pike,        | Main, Roscoe C.,       | <i>Pittsfield.</i>      |
| Pike,        | Blair, Alice Ledlie,   | <i>Barry.</i>           |
| Pope,        | Ragland, Richard F.,   | <i>Metropolis.</i>      |
| Pulaski,     | Manock, Wilbur,        | <i>Farmer City.</i>     |
| Putnam,      | Hopkins, Ruby C.,      | <i>Granville.</i>       |
| Putnam,      | Hatten, Frank W.,      | <i>Delavan.</i>         |
| Putnam,      | Brokaw, Mary I.,       | <i>Granville.</i>       |
| Randolph,    | McIntire, Mamie M.,    | <i>Sparta.</i>          |
| Randolph,    | Fricke, Herman H.,     | <i>Blair.</i>           |
| Randolph,    | Yehling, Albert C.,    | <i>Sparta.</i>          |
| Rock Island, | Strombeck, George M.,  | <i>Moline.</i>          |
| Rock Island, | Sheriff, Ralph E.,     | <i>Reynolds.</i>        |
| Rock Island, | Dixon, Guy,            | <i>Ambia, Ind.</i>      |
| St. Clair,   | Spencer, Fannie G. C., | <i>Belleville.</i>      |
| St. Clair,   | McDonald, Lewis,       | <i>Brownstown.</i>      |
| Saline,      | Webber, William B.,    | <i>Urbana.</i>          |
| Saline,      | Thompson, Samuel M.,   | <i>Harrisburg.</i>      |
| Sangamon,    | Robinson, Ward R.,     | <i>Springfield.</i>     |
| Sangamon,    | Hayes, Augustus W.,    | <i>Pleasant Plains.</i> |
| Sangamon,    | Atterberry, Jesse,     | <i>Morweaqua.</i>       |
| Schuyler,    | Weinberg, Nina M.,     | <i>Rushville.</i>       |
| Scott,       | Kunkle, Roy D.,        | <i>Peoria.</i>          |
| Scott,       | Smith, Leslie A.,      | <i>Champaign.</i>       |
| Scott,       | Reeder, Claude H.,     | <i>Watseka.</i>         |
| Shelby,      | Eberspacher, Jacob C., | <i>Pana.</i>            |
| Shelby,      | Gregory, Lenna M.,     | <i>Morweaqua.</i>       |
| Shelby,      | Corrington, Cloyd,     | <i>Morweaqua.</i>       |
| Stark,       | Robinson, Candace I.,  | <i>Granville.</i>       |
| Stark,       | Dyckes, Lawrence J.,   | <i>Lewistown.</i>       |
| Stark,       | Stewart, James Samuel, | <i>Toulon.</i>          |
| Stephenson,  | Kerch, Walter W.,      | <i>Freeport.</i>        |
| Stephenson,  | Hunt, Agnes,           | <i>Ridott.</i>          |
| Tazewell,    | Hall, Frederick C.,    | <i>Buffalo.</i>         |

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|-------------|--------------------------|---------------------|
| Tazewell,   | Corwine, George D.,      | <i>Delavan.</i>     |
| Tazewell,   | Cook, Frank S.,          | <i>Mackinaw.</i>    |
| Union,      | Maze, Everet A.,         | <i>Anna.</i>        |
| Union,      | Clendenen, Paul M.,      | <i>Cairo.</i>       |
| Vermilion,  | Nydegger, John,          | <i>Danville.</i>    |
| Vermilion,  | Clingan, Dennis A.,      | <i>Georgetown.</i>  |
| Vermilion,  | Porterfield, Nellie M.,  | <i>Fairmount.</i>   |
| Vermilion,  | Holmes, Dwight H.,       | <i>Danville.</i>    |
| Wabash,     | Boon, Hugh T.,           | <i>Urbana.</i>      |
| Wabash,     | Foster, J. Kyle,         | <i>Mt. Carmel.</i>  |
| Warren,     | Beyer, George F.,        | <i>Cullom.</i>      |
| Warren,     | Wickersham, Clarence E., | <i>Roseville.</i>   |
| Warren,     | White, Clarence,         | <i>Lacon.</i>       |
| Washington, | Kratz, Alonzo P.,        | <i>Champaign.</i>   |
| Washington, | Loutzenhiser, Ernest H., | <i>Danville.</i>    |
| Washington, | Arbogast, Fred L.,       | <i>Farmer City.</i> |
| Wayne,      | Callan, John,            | <i>Gifford.</i>     |
| Wayne,      | Pierce, Laura E.,        | <i>Gifford.</i>     |
| White,      | App, Charles M.,         | <i>Carmi.</i>       |
| White,      | Butzow, Louis J.,        | <i>St. Joseph.</i>  |
| White,      | Melrose, Mary,           | <i>Grayville.</i>   |
| Whiteside,  | Buyers, Archie S.,       | <i>Sterling.</i>    |
| Whiteside,  | Almy, Lloyd H.,          | <i>Sterling.</i>    |
| Will,       | McCracken, Robert W.,    | <i>Plano.</i>       |
| Will,       | Eyer, Ruth E.,           | <i>Plainfield.</i>  |
| Williamson, | Pillsbury, Charles S.,   | <i>Urbana.</i>      |
| Williamson, | Phillips, Claude W.,     | <i>Marion.</i>      |
| Williamson, | Oberdorfer, Henry D.,    | <i>Marion.</i>      |
| Winnebago,  | Derwent, Everett F.,     | <i>Pecatonica.</i>  |
| Winnebago,  | Kimball, Robert H.,      | <i>Rockford.</i>    |
| Winnebago,  | Ray, Arthur E.,          | <i>Rockford.</i>    |
| Winnebago,  | Munger, Guy E.,          | <i>Rock Island.</i> |
| Winnebago,  | Chaney, Harold B.,       | <i>Bloomington.</i> |
| Woodford,   | Applegate, Frank G.,     | <i>Atlanta.</i>     |
| Woodford,   | Somers, Florence B.,     | <i>El Paso.</i>     |
| Woodford,   | Fruin, Mary C.,          | <i>El Paso.</i>     |

## AGRICULTURAL SCHOLARSHIPS

|                     |                       |                       |
|---------------------|-----------------------|-----------------------|
| Adams,              | Nelson, Jacob C.,     | <i>Canton.</i>        |
| Adams,              | Turner, Rufus P.,     | <i>Quincy.</i>        |
| Adams,              | Coe, Wilbur F.,       | <i>Guincy.</i>        |
| Alexander,          | Glassco, Walter E.,   | <i>Charleston.</i>    |
| Bond,               | Lohman, Curtis S.,    | <i>Reno.</i>          |
| Bond,               | Redden, Frank D.,     | <i>Oakland.</i>       |
| Boone,              | Rapp, William J.,     | <i>San Jose.</i>      |
| Brown,              | Kerley, Claude,       | <i>Timewell.</i>      |
| Brown,              | Byrns, Harvey W.,     | <i>Mt. Sterling.</i>  |
| Bureau,             | Norton, William R.,   | <i>Neponset.</i>      |
| Bureau,             | Kemp, W. E.,          | <i>Sheffield.</i>     |
| Calhoun,            | Taylor, Winfield C.,  | <i>Dennison.</i>      |
| Carroll,            | Mackay, Jesse J.,     | <i>Mt. Carroll.</i>   |
| Carroll,            | Machamer, Ivan G.,    | <i>Lanark.</i>        |
| Cass,               | Sudbrink, Warren C.,  | <i>Beardstown.</i>    |
| Cass,               | Johnson, Ralph H.,    | <i>Chandlerville.</i> |
| Champaign,          | Johnson, John T.,     | <i>Urbana.</i>        |
| Champaign,          | Hall, George E.,      | <i>Champaign.</i>     |
| Christian,          | Allen, Edward R.,     | <i>Pana.</i>          |
| Christian,          | Simpson, Frank,       | <i>Pana.</i>          |
| Christian,          | Richardson, Ara E.,   | <i>Edinburg.</i>      |
| Clark,              | David, Samuel G.,     | <i>Onarga.</i>        |
| Clark,              | Ross, Otto H.,        | <i>Marshall.</i>      |
| Clay,               | McMillan, Robert E.,  | <i>Homer.</i>         |
| Clay,               | McCue, Edgar,         | <i>Junction.</i>      |
| Clinton,            | Block, Walter R.,     | <i>Champaign.</i>     |
| Clinton,            | Pletscher, Adolph B., | <i>Trenton.</i>       |
| Clinton,            | Stanner, James R.,    | <i>Urbana.</i>        |
| Coles,              | Shinn, William R.,    | <i>Mattoon.</i>       |
| Coles,              | Farrar, Roscoe,       | <i>Mattoon.</i>       |
| Coles,              | Zimmerman, Glenn E.,  | <i>Ashmore.</i>       |
| 1st Cong. District, | Brazier, Irwin M.,    | <i>Chicago.</i>       |
| 1st Cong. District, | Beckman, Albert,      | <i>Clayton.</i>       |
| 2nd Cong. District, | Durst, Charles E.,    | <i>Quincy.</i>        |
| 3rd Cong. District, | Stults, Elmer E.,     | <i>Evanston.</i>      |
| 3rd Cong. District, | Norris, Ralph V.,     | <i>Chicago.</i>       |
| 3rd Cong. District, | Orser, Fred L.,       | <i>Harvey.</i>        |
| 4th Cong. District, | Omer, Harry,          | <i>Clayton.</i>       |
| 5th Cong. District, | Corbin, Edward L.,    | <i>Carlinville.</i>   |

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|----------------------|---------------------------|----------------|
| 5th Cong. District,  | Wray, Robert C.,          | Quincy.        |
| 6th Cong. District,  | Vickery, John J.,         | Chicago.       |
| 7th Cong. District,  | Obergfell, Arthur E.,     | Chicago.       |
| 8th Cong. District,  | Burgess, Frank M.,        | Tonica.        |
| 8th Cong. District,  | Griffith, Leland S.,      | McNabb.        |
| 9th Cong. District,  | Jensen, Elof B.,          | Chicago.       |
| 9th Cong. District,  | Faust, Clifford R.,       | Chicago.       |
| 10th Cong. District, | Lamson, Richard D.,       | North Chicago. |
| Crawford,            | Window, William B.,       | Urbana.        |
| Cumberland,          | Blankenbeker, Homer F.,   | Martinsville.  |
| DeKalb,              | White, Fred H.,           | Longview.      |
| DeKalb,              | Wood, Henry C.,           | DeKalb.        |
| DeKalb,              | Baird, John H.,           | DeKalb.        |
| DeWitt,              | Ziegler, Frank,           | Clinton.       |
| DeWitt,              | Doyle, John C.,           | Farmer City.   |
| DeWitt,              | Brown, Carl A.,           | Clinton.       |
| Douglas,             | Breedlove, James A.,      | Arcola.        |
| Du Page,             | Curtis, Charles E.,       | Clarendon.     |
| Du Page,             | Danner, Roy,              | Astoria.       |
| Edgar,               | Trotter, Carroll A.,      | Kansas.        |
| Edgar,               | Trotter, Clinton P.,      | Kansas.        |
| Edwards,             | Mozley, John L.,          | Vienna.        |
| Edwards,             | Mathews, Elmer L.,        | Clinton.       |
| Effingham,           | Oathout, Charles H.,      | Urbana.        |
| Effingham,           | Dürre, Fred C.,           | Edgewood.      |
| Fayette,             | Leggett, Robert O.,       | Wapella.       |
| Ford,                | Grimm, James A.,          | Gibson City.   |
| Franklin,            | Hutson, Seba F.,          | Benton.        |
| Franklin,            | Lumbrick, Arthur,         | Charleston.    |
| Fulton,              | Kidder, Albert F.,        | Farmington.    |
| Fulton,              | Craig, John H.,           | Lewistown.     |
| Fulton,              | Hughbanks, L.,            | Fiatt.         |
| Gallatin,            | Buck, Colburn F.,         | Springfield.   |
| Gallatin,            | Norris, Howard D.,        | Sugar Grove.   |
| Greene,              | Melvin, Leon R.,          | Greenfield.    |
| Greene,              | McDougle, Jesse,          | Charleston.    |
| Grundy,              | Rothlisberger, Walter V., | Coal City.     |
| Hamilton,            | Chambers, Ralph E.,       | Sadorus.       |
| Hamilton,            | Roessler, Luther M.,      | Shelbyville.   |
| Hamilton,            | Een, Knute,               | Newark.        |
| Hancock,             | Hedgcock, William E.,     | Plymouth.      |

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|-------------|------------------------|-----------------------|
| Hardin,     | Bregger, Thomas.       | <i>South Heights.</i> |
| Hardin,     | Norris, Howard D.,     | <i>Evanston.</i>      |
| Henderson,  | Stewart, Harold W.,    | <i>Hebron.</i>        |
| Henderson,  | King, Bruce A.,        | <i>Plymouth.</i>      |
| Henry,      | Allison, Ira D.,       | <i>Alpha.</i>         |
| Henry,      | Allison, Fred G.,      | <i>Alpha.</i>         |
| Henry,      | Ray, William E.,       | <i>Kewanee.</i>       |
| Iroquois,   | Hegnauer, Leonard,     | <i>Onarga.</i>        |
| Iroquois,   | Curtis, Homer C.,      | <i>Woodland</i>       |
| Jackson,    | Deason, Francis E.,    | <i>Murphysboro.</i>   |
| Jackson,    | Parks, Dwight C.,      | <i>Murphysboro.</i>   |
| Jackson,    | Stetson, Ezra,         | <i>Neponset.</i>      |
| Jefferson,  | Meharry, Charles L.,   | <i>Tolono.</i>        |
| Jefferson,  | Kincaid, Arthur T.,    | <i>Athens.</i>        |
| Jersey,     | Kincaid, Todd P.,      | <i>Greenview.</i>     |
| Jersey,     | Drew, Joseph Allen,    | <i>Watseka.</i>       |
| Jo Daviess, | Pratt, Chester C.,     | <i>Avon.</i>          |
| Johnson,    | Wright, Herman F.,     | <i>Vienna.</i>        |
| Johnson,    | Simpson, F. M.,        | <i>Vienna.</i>        |
| Kane,       | Balis, William Henry,  | <i>St. Charles.</i>   |
| Kankakee,   | Porter, Edward A.,     | <i>Momence.</i>       |
| Kankakee,   | Risser, Ralph G.,      | <i>Kankakee.</i>      |
| Kankakee,   | Euans, Kenneth L.,     | <i>Watseka.</i>       |
| Kendall,    | Hepburn, Nelson W.,    | <i>Genoa.</i>         |
| Kendall,    | Seeley, John G.,       | <i>Oswego.</i>        |
| Knox,       | Gregg, Clarence A.,    | <i>Galesburg.</i>     |
| Knox,       | Slough, Charles G.,    | <i>Abingdon.</i>      |
| LaSalle,    | Warrick, Theron Lloyd, | <i>Utica.</i>         |
| LaSalle,    | Gentle, Ralph W.,      | <i>Farmington.</i>    |
| Lee,        | Cortright, Clyde C.,   | <i>Dixon.</i>         |
| Lee,        | Strauch, Richard,      | <i>Chadwick.</i>      |
| Livingston, | Stanford, Howard R.,   | <i>Chatsworth.</i>    |
| Livingston, | James, McNeal C.,      | <i>Ancona.</i>        |
| Logan,      | Applegate, Arthur L.,  | <i>Atlanta.</i>       |
| McDonough,  | Martin, John L.,       | <i>Wilmington.</i>    |
| McDonough,  | Walker, Ernest D.,     | <i>Tennessee.</i>     |
| McHenry,    | James, Delos L.,       | <i>Crystal Lake.</i>  |
| McHenry,    | Miller, Thomas Edgar,  | <i>Alexis.</i>        |
| McLean,     | Shade, Henry R.,       | <i>Bloomington.</i>   |
| McLean,     | Lawrence, Edward J.,   | <i>Hudson.</i>        |
| Macon,      | Grady, Charles H.,     | <i>Maroa.</i>         |

|              |                        |                      |
|--------------|------------------------|----------------------|
| Macon,       | Carmean, John H.,      | <i>Casner.</i>       |
| Macoupin,    | Long, Roy H.,          | <i>Lexington.</i>    |
| Macoupin,    | Vaniman, Vernon,       | <i>Virden.</i>       |
| Macoupin,    | Woods, Paul O.,        | <i>Carlinville.</i>  |
| Madison,     | Stocker, Cornelius,    | <i>Highland.</i>     |
| Madison,     | Martin, Walter C.,     | <i>Weston.</i>       |
| Marshall,    | Powers, Howard C.,     | <i>Princeton.</i>    |
| Marshall,    | Held, Joseph F.,       | <i>Lacon.</i>        |
| Mason,       | Meyer, George H.,      | <i>Havana.</i>       |
| Mason,       | Mathers, Vertus B.,    | <i>Mason City.</i>   |
| Menard,      | Culver, Walter A.,     | <i>Athens.</i>       |
| Menard,      | Kincaid, John K.,      | <i>Athens.</i>       |
| Mercer,      | Gustafson, Alex F.,    | <i>Aledo.</i>        |
| Mercer,      | Grosh, Wilbur W.,      | <i>Mendon.</i>       |
| Mercer,      | Read, James M., Jr.,   | <i>Augusta.</i>      |
| Monroe,      | Railsback, Fay D.,     | <i>Normal.</i>       |
| Montgomery,  | Paden, James C.,       | <i>Hillsboro.</i>    |
| Montgomery,  | Ware, Roy A.,          | <i>Butler.</i>       |
| Morgan,      | Joy, Harold P.,        | <i>Chapin.</i>       |
| Morgan,      | Masters, James H.,     | <i>Jacksonville.</i> |
| Morgan,      | Smith, Theodore M.,    | <i>Auburn.</i>       |
| Moultrie,    | Phillips, Albert V.,   | <i>Sullivan.</i>     |
| Moultrie,    | Acom, Owen H.,         | <i>Lake City.</i>    |
| Ogle,        | Ryno, Walter E.,       | <i>Canton.</i>       |
| Peoria,      | Miner, James H.,       | <i>Adair.</i>        |
| Peoria,      | Atwood, Paul W.,       | <i>Lewistown.</i>    |
| Peoria,      | Meeker, Maurice S.,    | <i>Peoria.</i>       |
| Perry,       | Needles, Elmer H.,     | <i>Belleville.</i>   |
| Piatt,       | Wise, Leonard E.,      | <i>Cerro Gordo.</i>  |
| Piatt,       | Burwash, Milo E.,      | <i>Champaign.</i>    |
| Pike,        | Jones, George L.,      | <i>El Dara.</i>      |
| Pope,        | Clanahan, Robert H.,   | <i>Springfield.</i>  |
| Pope,        | Scott, Harry,          | <i>Wapella.</i>      |
| Putnam,      | Dysart, John P.,       | <i>Granville.</i>    |
| Putnam,      | Mills, Clifford P.,    | <i>McNabb.</i>       |
| Randolph,    | Meharry, Edwin T.,     | <i>Tolono.</i>       |
| Richland,    | Henderschott, William, | <i>Dundas.</i>       |
| Rock Island, | Powell, Arthur L.,     | <i>Bowen.</i>        |
| Rock Island, | Woodworth, Levi G.,    | <i>Stillwell.</i>    |
| St. Clair,   | Hertel, Clarence A.,   | <i>Freeburg.</i>     |

|             |                         |                         |
|-------------|-------------------------|-------------------------|
| St. Clair,  | Fiedler, George L.,     | <i>Freeburg.</i>        |
| Saline,     | Smith, Alfred G.,       | <i>Hope.</i>            |
| Saline,     | Riegel, William E.,     | <i>Galatia.</i>         |
| Sangamon,   | Stout, John P.,         | <i>Glenarm.</i>         |
| Schuyler,   | Sherman, Clarence A.,   | <i>Rushville.</i>       |
| Scott,      | Alexander, William H.,  | <i>Emden.</i>           |
| Shelby,     | White, Frank,           | <i>Shelbyville.</i>     |
| Stark,      | Henline, Alma,          | <i>Towanda.</i>         |
| Stark,      | Derby, Francis A.,      | <i>Toulon.</i>          |
| Stephenson, | Dysart, Charles A.,     | <i>Granville.</i>       |
| Tazewell,   | Allen, Fred E.,         | <i>Delavan.</i>         |
| Tazewell,   | Allen, Jonathan B.,     | <i>Delavan.</i>         |
| Union,      | Griffin, Charles R.,    | <i>Anna.</i>            |
| Vermilion,  | Seymour, Walter A.,     | <i>Henning.</i>         |
| Wabash,     | Leipold, Grover C.,     | <i>Mt. Carmel.</i>      |
| Warren,     | Cameron, William D.,    | <i>Alexis.</i>          |
| Washington, | Truman, Brook H.,       | <i>Urbana.</i>          |
| Washington, | Irwin, Harry C.,        | <i>Pleasant Plains.</i> |
| Wayne,      | Glassco, Ray J.,        | <i>Charleston.</i>      |
| White,      | Hoskins, Ezekiel E.,    | <i>Norris City.</i>     |
| Whiteside,  | Whistler, Eben S.,      | <i>Morrison.</i>        |
| Will,       | Craig, Stephen J., Jr., | <i>Wilmington.</i>      |
| Will,       | Woodworth, Harry C.,    | <i>Chicago.</i>         |
| Winnebago,  | Jackson, James E.,      | <i>Toulon.</i>          |
| Woodford,   | Dickinson, Robert G.,   | <i>Eureka.</i>          |

#### SCHOLARSHIPS IN HOUSEHOLD SCIENCE.

|            |                       |                      |
|------------|-----------------------|----------------------|
| Adams,     | Grosh, Elizabeth P.,  | <i>Mendon.</i>       |
| Boone,     | Sexauer, Hilda C.,    | <i>Belvidere.</i>    |
| Brown,     | Clark, Mamie E.,      | <i>Mt. Sterling.</i> |
| Bureau,    | Powers, Alice,        | <i>Tiskilwa.</i>     |
| Carroll,   | Mackay, Zella G.,     | <i>Mt. Carroll.</i>  |
| Carroll,   | Strauch, Hilda L.,    | <i>Chadwick.</i>     |
| Champaign, | Barr, Susan J.,       | <i>Urbana.</i>       |
| Champaign, | Gilkerson, Portia E., | <i>Urbana.</i>       |
| Champaign, | Howe, Mary,           | <i>Urbana.</i>       |
| Champaign, | Nuckolls, Mary E.,    | <i>Urbana.</i>       |
| Christian, | Logan, Winnie A.,     | <i>Edinburg.</i>     |
| Christian, | Logan, Grace B.,      | <i>Edinburg.</i>     |
| Clark,     | McMillan, Mary B.,    | <i>Homer.</i>        |

|                      |                           |                     |
|----------------------|---------------------------|---------------------|
| Clay,                | Hess, Abigail M.,         | <i>Flora.</i>       |
| Coles,               | Harrison, Florence,       | <i>Danville.</i>    |
| Coles,               | Shinn, Florence,          | <i>Mattoon.</i>     |
| 1st Cong. District,  | Johnson, Antonio,         | <i>Chicago.</i>     |
| 2nd Cong. District,  | Casey, Angie M.,          | <i>Chicago.</i>     |
| 3rd Cong. District,  | Dillon, Jessie M.,        | <i>Chicago.</i>     |
| 10th Cong. District, | Thurston, Lena M.,        | <i>Winnetka.</i>    |
| Douglas,             | Bryan, Sarah E.,          | <i>Champaign.</i>   |
| Du Page,             | Childs, Helen R.,         | <i>Hinsdale.</i>    |
| Edgar,               | Baldwin, Helen R.,        | <i>Paris.</i>       |
| Edwards,             | Hummell, Sarah M.,        | <i>Urbana.</i>      |
| Fayette,             | Linbarger, Mariea L.,     | <i>Champaign.</i>   |
| Ford,                | Dillon, Bessie,           | <i>Normal.</i>      |
| Franklin,            | Hutson, Stella E.,        | <i>Benton.</i>      |
| Fulton,              | Waughtel, Mrs. Nellie E., | <i>Cuba.</i>        |
| Hancock,             | Garnett, Percie E.,       | <i>Plymouth.</i>    |
| Iroquois,            | Truman, Edna,             | <i>Urbana.</i>      |
| Iroquois,            | Matthews, Martha M.,      | <i>Onarga.</i>      |
| Iroquois,            | Gish, Laura G.,           | <i>Onarga.</i>      |
| Kankakee,            | Dunlap, Isabella J.,      | <i>Savoy.</i>       |
| Knox,                | Greene, Edith M.,         | <i>Galesburg.</i>   |
| LaSalle,             | Barlow, Mrs. Jennie C.,   | <i>Bloomington.</i> |
| LaSalle,             | McDougall, Glenwood,      | <i>Ottawa.</i>      |
| Livingston,          | Opperman, Anna L.,        | <i>Cullom.</i>      |
| McLean,              | Crigler, Nina B.,         | <i>Normal.</i>      |
| Macon,               | Smith, Fleda M.,          | <i>Urbana.</i>      |
| Macoupin,            | Showalter, Nora,          | <i>Girard.</i>      |
| Madison,             | Wildi, Cordelia E.,       | <i>Highland.</i>    |
| Marshall,            | Williams, Clara G.,       | <i>Henry.</i>       |
| Marion,              | English, Eula M.,         | <i>Bloomington.</i> |
| Mason,               | McCain, Myrtle B.,        | <i>Bloomington.</i> |
| Moultrie,            | Kerr, Josephine,          | <i>Urbana.</i>      |
| Moultrie,            | Davis, Mary H.,           | <i>Urbana.</i>      |
| Ogle,                | Joiner, Flora,            | <i>Polo.</i>        |
| Peoria,              | Gage, Marjorie H.,        | <i>Peoria.</i>      |
| Piatt,               | Miller, Daisy M.,         | <i>Urbana.</i>      |
| Piatt,               | Busey, Carolyn E.,        | <i>Urbana.</i>      |
| Piatt,               | Hawbaker, Julia,          | <i>Mansfield.</i>   |
| Pike,                | Ludlow, Anne M.,          | <i>Griggsville.</i> |
| Putnam,              | Harper, Bertha M.,        | <i>Granville.</i>   |
| Rock Island,         | Nutting, Mrs. Lenore M.,  | <i>Rock Island.</i> |

|             |                      |                  |
|-------------|----------------------|------------------|
| Stephenson, | Shannon, Agnes N.,   | <i>Freeport.</i> |
| Tazewell,   | Coen, Margaret D.,   | <i>Normal.</i>   |
| Vermilion,  | Fox, Mabel E.,       | <i>Danville.</i> |
| Vermilion,  | Bush, Alma K.,       | <i>Urbana.</i>   |
| Whiteside,  | Gridley, Mabel A.,   | <i>Morrison.</i> |
| Williamson, | Warder, Evelyn,      | <i>Marion.</i>   |
| Woodford,   | Dickinson, Nelle M., | <i>Eureka.</i>   |
| Woodford,   | Gross, Lola B.,      | <i>El Paso.</i>  |

### <sup>1</sup>CERTIFICATES FOR QUALIFICATION TO TEACH

|                           |                                       |
|---------------------------|---------------------------------------|
| Belting, Flora M.....     | Mathematics, Chemistry                |
| Bullard, Helen E.....     | English Literature and Rhetoric       |
| Caswell, Julia E.....     | English Literature, Art and Design    |
| Clendenen, Lois G.....    | English Literature and Rhetoric       |
| Echols, Silas .....       | History                               |
| Franceway, Margaret ..... | History, English Literature           |
| Higinbotham, Pearl .....  | English Literature                    |
| McCarthy, Estella M.....  | Mathematics, French                   |
| Massey, Esther .....      | Latin, German, History                |
| Mather, Rose M.....       | English Literature, German, Rhetoric  |
| Mather, Myra A.....       | German, English Literature, History   |
| Reese, Nelle W.....       | Mathematics, Physics                  |
| Richeson, Virginia C..... | Domestic Science                      |
| Storm, Howard C.....      | English Literature, Rhetoric          |
| Sype, George .....        | Physics, Mathematics, German          |
| Taylor, Ruth B.....       | English Literature, Rhetoric          |
| Trams, Albert F.....      | German, English Literature            |
| Wray, Harriette .....     | History, English Literature, Rhetoric |

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<sup>1</sup>See page 117.

## UNIVERSITY HONORS

Honors were awarded by the Faculty for scholarship in 1905-'06 as follows:

## COLLEGE OF LITERATURE AND ARTS

## PRELIMINARY HONORS

|                        |                          |
|------------------------|--------------------------|
| Mildred Lucile Barlow. | Miriam Elsie Scott.      |
| Fred Parker Benjamin.  | Helen Brownell Smith.    |
| Maudelle Tanner Brown. | Florence Barbara Somers. |
| Alice Howe.            | Carl Clinton Van Doren.  |
| Irene Mary Parsons.    | Anna Blanchard White.    |
| Jessie Ryan.           | Jeannette Lamb Worthen.  |

## FINAL HONORS

|                             |                       |
|-----------------------------|-----------------------|
| Grace Matilda Allen.        | Louis Conrad Moschel. |
| Emma Edmiston.              | Edwin Raymond Smith.  |
| Theophil Henry Hildebrandt. | Harriette Wray.       |
| Esther Massey.              | Glidden Hinman.       |

## SPECIAL HONORS

|                             |                       |
|-----------------------------|-----------------------|
| George Puffer Gallaher.     | Louis Conrad Moschel. |
| Theophil Henry Hildebrandt. | Edwin Raymond Smith.  |
|                             | Harriette Wray        |

## COLLEGE OF ENGINEERING

## PRELIMINARY HONORS

*Architecture*—Clarence Eugene Noerenberg.

*Civil Engineering*—

|                         |                          |
|-------------------------|--------------------------|
| John Andrew Dailey.     | Clyde Leroy Mowder.      |
| Frederick William Frye. | Alfred Peter Poorman.    |
| Frank James Kammer.     | Albert James Schafmayer. |

*Electrical Engineering*—

|                     |                             |
|---------------------|-----------------------------|
| Clement Henry Bell. | Ernest Hungerford Johnston. |
| Klaus Lobek Hansen. | Martin Lawrence Millspaugh. |
| Trygve Jensen.      | Arthur Jay Ray.             |

George Annis Williams.

*Mechanical Engineering—*

|                           |                            |
|---------------------------|----------------------------|
| William Black.            | Myron Avery Kendall.       |
| Frederick Edward Hanke.   | Charles Stephen Pillsbury. |
| Harry Paul Humphreys.     | Alwin Schaller.            |
| Ernest Otto Jacob.        | John Elliot Strawn.        |
| George Mauritz Strombeck. |                            |

## FINAL HONORS

*Architecture—*Whitman Dart.*Civil Engineering—*

|                           |                        |
|---------------------------|------------------------|
| Lawrence Everett Curfman. | Frank Alfred Randall.  |
| Frank William Hillman.    | Edwin Theodore Renner. |
| John Earl Shoemaker.      |                        |

*Electrical Engineering—*Maurice Le Roy Carr.*Mechanical Engineering—*

|                        |                         |
|------------------------|-------------------------|
| Harry Fred Godeke.     | Franklin Wales Marquis. |
| Kenneth Gardner Smith. |                         |

## COLLEGE OF SCIENCE

## PRELIMINARY HONORS

|                          |                     |
|--------------------------|---------------------|
| Arthur Norton Bennett.   | Alfred Otto Gross.  |
| Bradley Charles Gardner. | Mary Janet Laycock. |

## FINAL HONORS

|                     |                     |
|---------------------|---------------------|
| Ralph Merle Carter. | John Philo Gilbert. |
| Clifford Crosby.    | Ora Sherman Morgan. |

## COLLEGE OF AGRICULTURE

## PRELIMINARY HONORS

|                          |                           |
|--------------------------|---------------------------|
| Portia Eunice Gilkerson. | Axel Ferdinand Gustafson. |
| Margaret Grace Greenman. | Henry Roscoe Shade.       |

## FINAL HONORS

|                           |                   |
|---------------------------|-------------------|
| Berton Eugene Carmichael. | Orlo Dorr Center. |
|---------------------------|-------------------|

## SCHOOL OF LIBRARY SCIENCE

## FINAL HONORS

|  |
|--|
| Francis Keese Wynkoop Drury, A.M., ( <i>Rutgers Coll.</i> ), 1905. |
| Della Jarrett Sisler.  |

COMMISSIONS AS BREVET CAPTAINS, ILLINOIS NATIONAL GUARD, ISSUED BY THE GOVERNOR  
IN 1905

Fred George Pegelow, Edgar White Wagenseil, Frank Woodbury Cutler, Edwin Raymond Smith, William Wharton Clay, Wade Hampton Rothgeb, Edwin Anders, John Myron Bond, Ralph Merle Carter, William George Eckhardt, George Puffer Galla-her, William Roy Martin, Haven Haanel Moss, William Hanson Roney, Hugo Schmidt, Donald Edward Mather.

Reported to the Military Secretary, United States Army, as distin-guished Cadets, for the purpose of having their names published in the Register of the United States Army: Fred George Pege-low, Edgar White Wagenseil, Frank Woodbury Cutler.

ROSTER OF THE OFFICERS AND NON-COMMISSIONED OFFICERS OF THE UNIVERSITY CORPS  
OF CADETS

*Field and Staff—*

|  |                 |
|--|-----------------|
| Colonel .....                                  | C. E. Henderson |
| Lieutenant Colonel .....                       | W. J. Kanne     |
| Major 1st. Battalion .....                     | E. E. Bullard   |
| Major 2nd. Battalion .....                     | D. B. A. Graham |
| Major 3rd. Battalion .....                     | O. S. Watkins   |
| Captain and Adjutant .....                     | C. G. Pepper    |
| Battalion Adjutant (1st. B. (1st. Lieut.)....  | L. H. Wood      |
| Battalion Adjutant (2nd. B.) (1st. Lieut.).... | J. A. Strawn    |
| Battalion Adjutant (3rd. B. (1st. Lieut.)..... | .....           |
| Sergeant Major .....                           | H. C. Zink      |
| Chief Trumpeter .....                          | A. J. Harris    |
| Drum Major .....                               | B. P. Irwin     |
| Sergeant Major (1st. B.).....                  | G. C. Olmsted   |
| Sergeant Major (2nd. B.).....                  | H. W. Winter    |
| Sergeant Major (3rd. B.).....                  | C. C. Westfall  |
| Color Sergeant .....                           | E. Keough       |

Company "A"—Captain, A. M. Dunlap; First Lieutenant, C. S. Pillsbury; Second Lieutenant, W. L. Egy; First Sergeant, V. L. Phillips; Sergeants, J. B. Streid, C. B. Busey, L. A. Dillon. E. B. Jordan; Corporals, F. L. Hanson, E. B. Jensen, L. J. Hesse, H. R. DeWitt, D. L. Christopher, B. M. Kerr.

Company "B"—Captain, R. M. Evans; First Lieutenant, F. C. Bagby; Second Lieutenant, —————; First Sergeant, W. H. Schulzke; Sergeants, A. J. Reeves, G. L. Fossland, F. L. Cook, H. L. Hazard; Corporals, H. J. Atkinson, G. D. Corwine, T. G. Lowry, C. A. Marshall, F. M. Orndorff, C. C. Shields.

Company "C"—Captain, R. C. Main; First Lieutenant, C. T. Moss; Second Lieutenant, B. T. Anderson; First Sergeant, R. E. Garnett; Sergeants, G. E. Pfisterer, E. B. Murray, R. S. Hawley, J. W. Swartz; Corporals, R. E. Claypool, J. B. Coombs, W. W. Parker, C. R. Reid, R. Schumacher, M. S. Morgan.

Company "D"—Captain, A. J. Carter; First Lieutenant, W. Lewis; Second Lieutenant, A. E. Ray; First Sergeant, D. J. Grant; Sergeants, W. H. Nicholson, E. O. Furrow, W. E. Hart, G. A. Sihler; Corporals, L. A. Smith, A. H. Daehler, W. T. Miller, C. E. Wickersham, P. L. Grady, G. E. Frey.

Company "E"—Captain, W. H. Gregory; First Lieutenant, H. K. Patch; Second Lieutenant, H. G. Treichel; First Sergeant, W. H. Almy; Sergeants, M. A. Melloy, F. W. Swannell, T. E. Young, P. S. Brubaker; Corporals, R. E. Deets, R. K. Hursh, R. E. Sheriff, J. M. Watters, H. L. Tear.

Company "F"—Captain, J. R. Clark; First Lieutenant, L. R. Wilson; Second Lieutenant, W. R. Block; First Sergeant, I. C. Nitz; Sergeants, J. L. Stair, W. N. Helfrich, A. H. Bauer, H. B. Seifert; Corporals, H. T. Long, E. E. Wilkinson, F. W. Hatten, I. M. Brazier, H. A. Brand.

Company "G"—Captain, C. E. Little; First Lieutenant, S. B. Smith; Second Lieutenant, J. D. Ball; First Sergeant, H. G. Stockman; Sergeants, E. F. Kaesar, W. H. Doran, J. D. Blount, S. C. Abernathy; Corporals, R. S. Arthur, N. H. Hill, J. M. Stehman, D. H. Rich, W. W. Kautz, M. G. Dadant.

Company "H"—Captain, F. H. Reynolds; First Lieutenant, H. D. Hughes; Second Lieutenant, F. H. White; First Sergeant, E. A. Weber; Sergeants, A. S. Buyers, C. A. Hughes, R. T. Pettit, A. P. Hueckel; Corporals, H. E. Kahlert, G. E. Weaver, I. S. Brooks, H. W. Stewart, D. M. Beal, S. S. Snyder.

Company "I"—Captain, C. M. Page; First Lieutenant, E. F. Kultchar; Second Lieutenant, W. T. Gordley; First Sergeant, H. N. Jones; Sergeants, B. F. Tucker, E. L. Hall, C. A. Waddell, E. H. Needles; Corporals, C. E. Curtis, S. P. Farwell, A. Hagnauer, J. B. Yowell, F. T. Kegley, H. P. Sturgis.

Company "K"—Captain, M. H. Brightman; First Lieutenant, P. J. Beck; Second Lieutenant, L. G. Schumacher; First Sergeant, O. I. Harrington; Sergeants, D. F. Barloga, R. B. Swezey, V. J. Boothe, F. M. Byers; Corporals, K. Hellstrom, S. M. Davis, R. B. Dillehunt, J. F. Alexander, D. F. Higgins, G. Madison.

Battery—Captain, L. E. Wise; First Lieutenant, L. V. Johnson; Second Lieutenant, R. N. Fargo; First Sergeant, F. Wagner; Sergeants, G. R. Welch, G. D. Phillips, H. C. Williams, C. R. Moulton.

Headquarter Detachment.—First Sergeant, Hospital Corps, R. C. Reid; Trumpeters—E. J. Bartells, H. R. Stanford, W. C. Snow, F. B. Baldwin, E. F. Maryatt, R. Howard.

## ROSTER

### WINNING ORGANIZATIONS—ANNUAL COMPETITIVE DRILL

#### INDIVIDUAL

Hazelton Gold Medal.

Lance Corporal George Chauncey Olmsted.

#### ARTILLERY

University Bronze Medals.

##### GUN DETACHMENT

First Lieutenant, L. E. Wise.

Gunner R. N. Fargo.

Cadet Private J. W. Cairns.

Cadet Private J. M. Cleary.

Cadet Private J. F. Erwin.

Cadet Private F. W. Padfield.

Cadet Private C. S. Robinson.

Cadet Private J. R. Scott.

Cadet Private C. W. Yeck.

## UNIVERSITY OF ILLINOIS

## INFANTRY

## University Bronze Medals.

## COMPANY COMPETITIVE

Company "F," University Regiment.

Captain \_\_\_\_\_.

First Lieutenant C. E. Henderson. Second Lieutenant J. R. Clark.

First Sergeant L. R. Wilson.

## SERGEANTS

W. K. Bolin, H. K. Patch, W. Lewis, J. F. Cox.

## CORPORALS

J. J. Burke, W. C. Caldwell, F. S. Luney, V. Smith, P. R. West.

## LANCE CORPORALS

W. H. Almy, A. H. Bauer, B. A. Brackenbury, W. N. Helfrich,  
 I. C. Nitz, R. T. Pettit, H. W. Stewart, J. W. Swartz,  
 C. A. Waddell.

## PRIVATES

|                 |                   |                  |
|-----------------|-------------------|------------------|
| Dixon, F. E.    | Wyatt, K. K.      | Hatten, F. W.    |
| Evans, E. R.    | Yates, J. W.      | Heinrich, G. A.  |
| Friend, R. O.   | Baxter, C. B.     | Hubbard, W. S.   |
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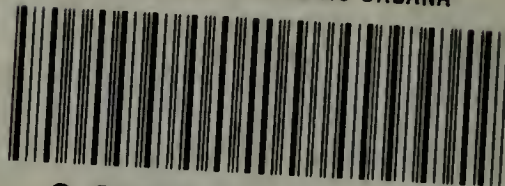








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